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POTENCY CONCENTRATION COMPARISON OF IBOTENIC ACID AND MUSCIMOL IN WHOLE AMANITA MUSCARIA MUSHROOMS

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ABSTRACT

This study examines the concentrations of the primary psychoactive alkaloids, Ibotenic Acid and Muscimol, in 35 Amanita Muscaria mushroom caps. The focus is on the variation in alkaloid content between individual mushrooms, providing a detailed analysis of the total amounts and the ratio of Ibotenic, Acid to Muscimol Using High-Performance Liquid Chromatography (HPLC), this research aims to deliver insights into the natural variation of these compounds within the species. The results highlight the potential challenges in predicting the potency of Amanita Muscaria mushrooms, which is crucial for both scientific research and consumer safety.

Keywords: Amanita Muscaria, Ibotenic Acid, Muscimol

INTRODUCTION

In recent years, Amanita Muscaria has gained popularity in the psychedelic industry due to its psychoactive effects and legality. Amanita Muscaria mushrooms have been studied by researchers to attain information about the fungus' composition, potential therapeutic utility, and potential for anti-cancer action (Yoshida, Zavadinack, Zaidman). Amanita Muscaria mushrooms have also been consumed by the public to experience the psychoactive effects of the alkaloids present in the fungus (Aye). Consumption of Amanita mushrooms has proven to be potentially harmful if consumed (Moss). Ibotenic Acid and Muscimol are two neuroactive alkaloids in Amanita species mushrooms that are responsible for the psychoactive effect. Muscimol, the decarboxylated form of Ibotenic Acid, is the desired chemical that consumers of the mushroom seek.

METHODOLOGY

Source of Mushrooms

The Amanita Muscaria mushrooms used in this study were sourced from the Carpathian Mountains in western Ukraine. This area is renowned for its dense forests and rich biodiversity. The topography of the Carpathian Mountains is characterized by varied elevations which include slopes and flat areas. The collection site featured a predominantly shaded environment due to the dense canopy of spruce trees. All mushrooms for this study were harvested on a single day from a specific location within the Carpathian Mountains. After harvesting, the mushrooms were placed in a breathable container to facilitate drying. Within two days of harvesting the mushrooms were vacuum sealed and sent to our lab. 35 whole mushroom caps were utilized in this study. A whole mushroom cap is at least ¾ of the mushroom cap intact. Mushrooms that were broken up more than ¼ were not utilized for this study.

METHODOLOGY

Mushroom Preparation

The mushroom caps were opened from a vacuum sealed plastic bag and portioned into individual Ziploc bags. Each mushroom cap was given a PharmLabs ID #. For all 35 mushroom caps, a unit mass was recorded. Next, the mushroom caps were individually homogenized with a blender using a pulsing technique. The homogenized mushroom cap was placed back into the Ziploc bag.

In general, all the sample prep extractions were performed with the following steps:

1) 1.000 g of ground mushroom cap
2) 10 mL HPLC Grade Solvent
3) 10-minute sonication at 25 Celsius
4) 10-minute vortex
5) 5-minute centrifuge
6) Filter solution with PTFE filter

There were several mushroom caps that weighed less than 1.000 g. In some of these cases, the solvent volume was decreased to 5 mL.

SD240329-021: Mushroom 14 – 10 mL Solvent Volume
SD240329-024: Mushroom 17 – 5 mL Solvent Volume
SD240329-028: Mushroom 21 – 5 mL Solvent Volume
SD240329-030: Mushroom 23 – 5 mL Solvent Volume
SD240329-032: Mushroom 25 – 5 mL Solvent Volume

Mushroom Analysis by HPLC

After extraction, the filtered extract was analyzed by HPLC. An Agilent 1100 HPLC Stack comprising of a Degasser, Quaternary Pump, Autosampler, Column Compartment, and VWD was used to acquire data. ChemStations software was utilized to process all chromatograms.

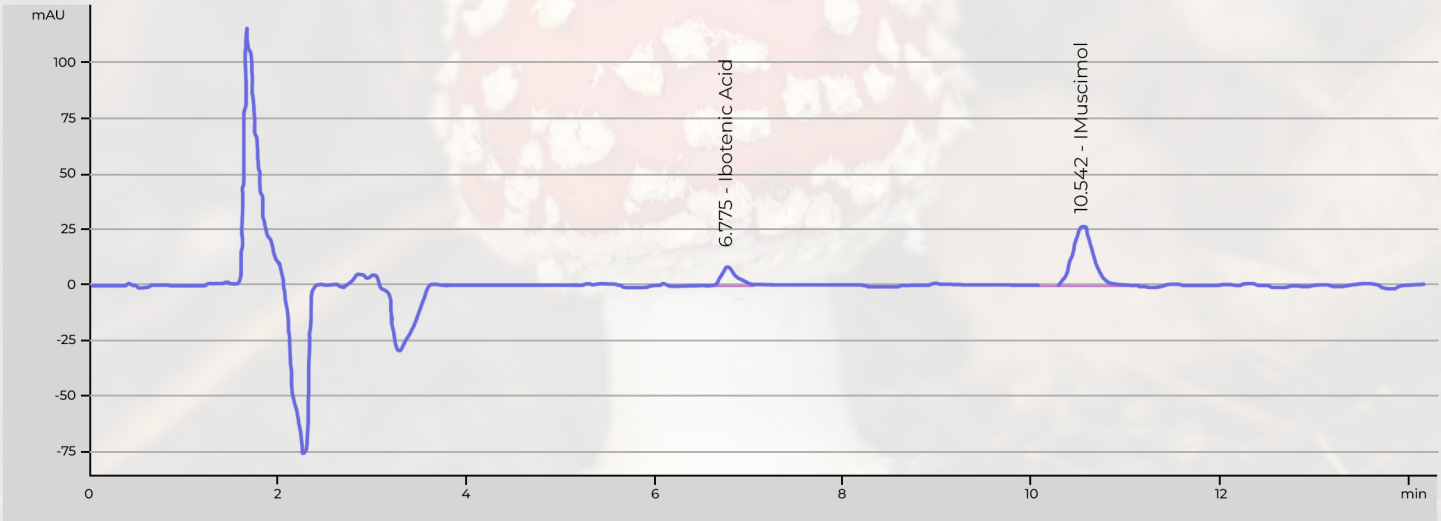


Figure 1: 50 ppm CRM Standard solution containing Ibotenic Acid and Muscimol

RESULTS

For each mushroom cap, Ibotenic Acid and Muscimol concentrations were analyzed. Table 1 shows the Ibotenic Acid and Muscimol concentrations for each mushroom cap. Table 2 shows the average Ibotenic Acid and Muscimol concentrations for this set of 35 mushroom caps.

Table 1: Ibotenic Acid and Muscimol Concentrations for each individual Mushroom cap.

Sample ID	Mushroom#	Unit Mass (g)	Ibotenic Acid (mg/g)	Muscimol (mg/g)
SD240329-008	Mushroom 1	1.611	7.292	0.651
SD240329-009	Mushroom 2	9.303	7.649	0.413
SD240329-010	Mushroom 3	4.840	4.684	0.555
SD240329-011	Mushroom 4	3.162	5.799	0.934
SD240329-012	Mushroom 5	3.479	10.517	0.801
SD240329-013	Mushroom 6	2.040	3.261	0.592
SD240329-014	Mushroom 7	3.090	16.037	0.839
SD240329-015	Mushroom 8	2.140	5.256	0.590
SD240329-016	Mushroom 9	2.625	5.833	0.681
SD240329-017	Mushroom 10	3.785	4.982	0.683
SD240329-018	Mushroom 11	2.937	8.650	0.849
SD240329-019	Mushroom 12	5.115	9.105	0.802
SD240329-020	Mushroom 13	1.341	9.763	1.270
SD240329-021	Mushroom 14	0.622	2.052	0.419
SD240329-022	Mushroom 15	3.515	4.637	0.979
SD240329-023	Mushroom 16	1.782	4.792	0.512
SD240329-024	Mushroom 17	0.750	8.305	0.828
SD240329-025	Mushroom 18	2.170	6.855	0.521
SD240329-025	Mushroom 19	1.701	13.483	0.320
SD240329-027	Mushroom 20	1.709	2.569	0.289
SD240329-028	Mushroom 21	0.883	3.689	0.968
SD240329-029	Mushroom 22	1.491	5.059	0.188
SD240329-030	Mushroom 23	0.508	12.225	0.602
SD240329-031	Mushroom 24	1.835	5.537	0.278
SD240329-032	Mushroom 25	0.725	8.808	1.108
SD240329-033	Mushroom 26	2.560	11.330	0.933
SD240329-034	Mushroom 27	1.269	9.006	0.684
SD240329-035	Mushroom 28	7.720	10.013	0.438
SD240329-036	Mushroom 29	2.060	13.90%	0.688
SD240329-037	Mushroom 30	1.427	7.905	0.614
SD240329-038	Mushroom 31	7.552	8.642	0.691
SD240329-039	Mushroom 32	2.788	3.847	0.812
SD240329-040	Mushroom 33	1.722	4.199	0.807
SD240329-041	Mushroom 34	3.906	2.977	0.326
S0240329-063	Mushroom 35	1.319	4.354	0.401

Table 2: Average Ibotenic Acid and Muscimol concentration.

	Unit Mass (g)	Ibotenic Acid (mg/g)	Muscimol (mg/g)
Average	2.728	7.229	0.659
Rel. Standard Deviation	0.752	0.478	0.381

RESULTS

Chart 1: Comparison of Ibotenic Acid Concentrations.

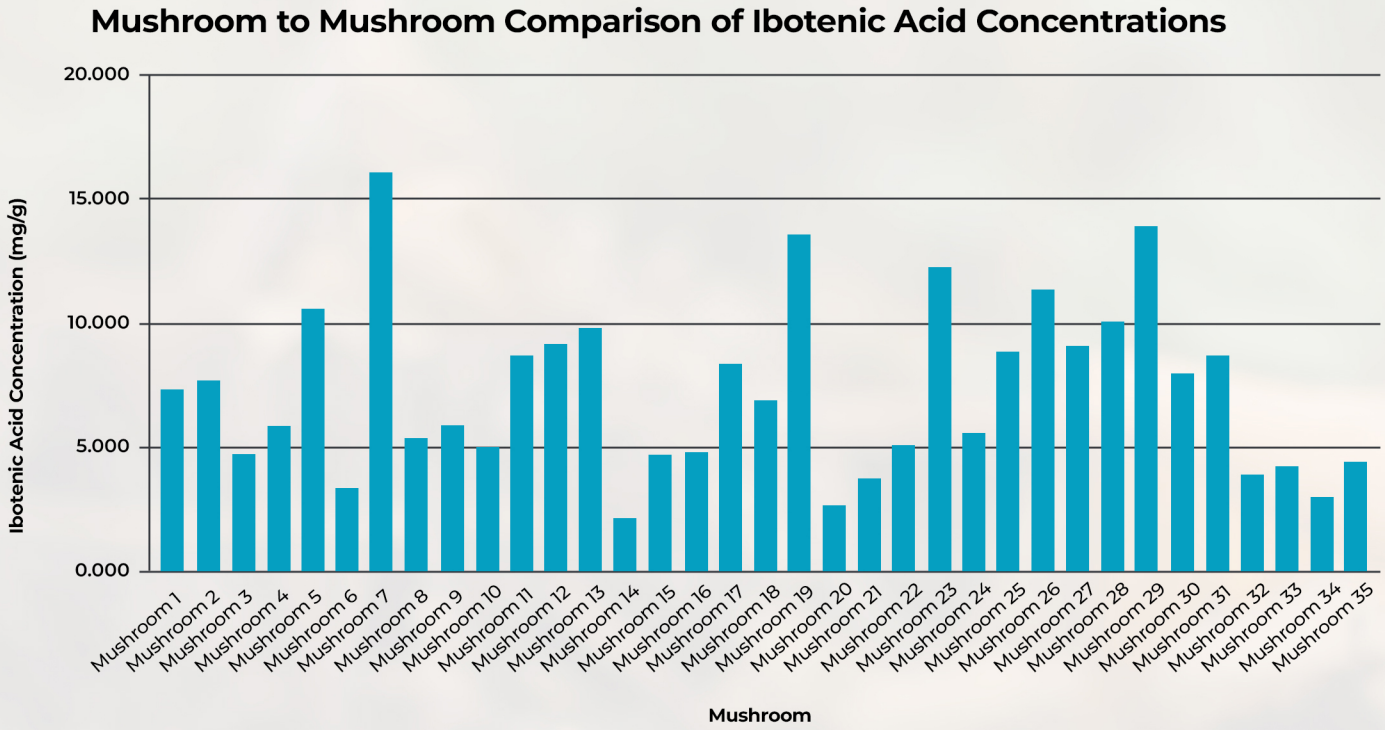
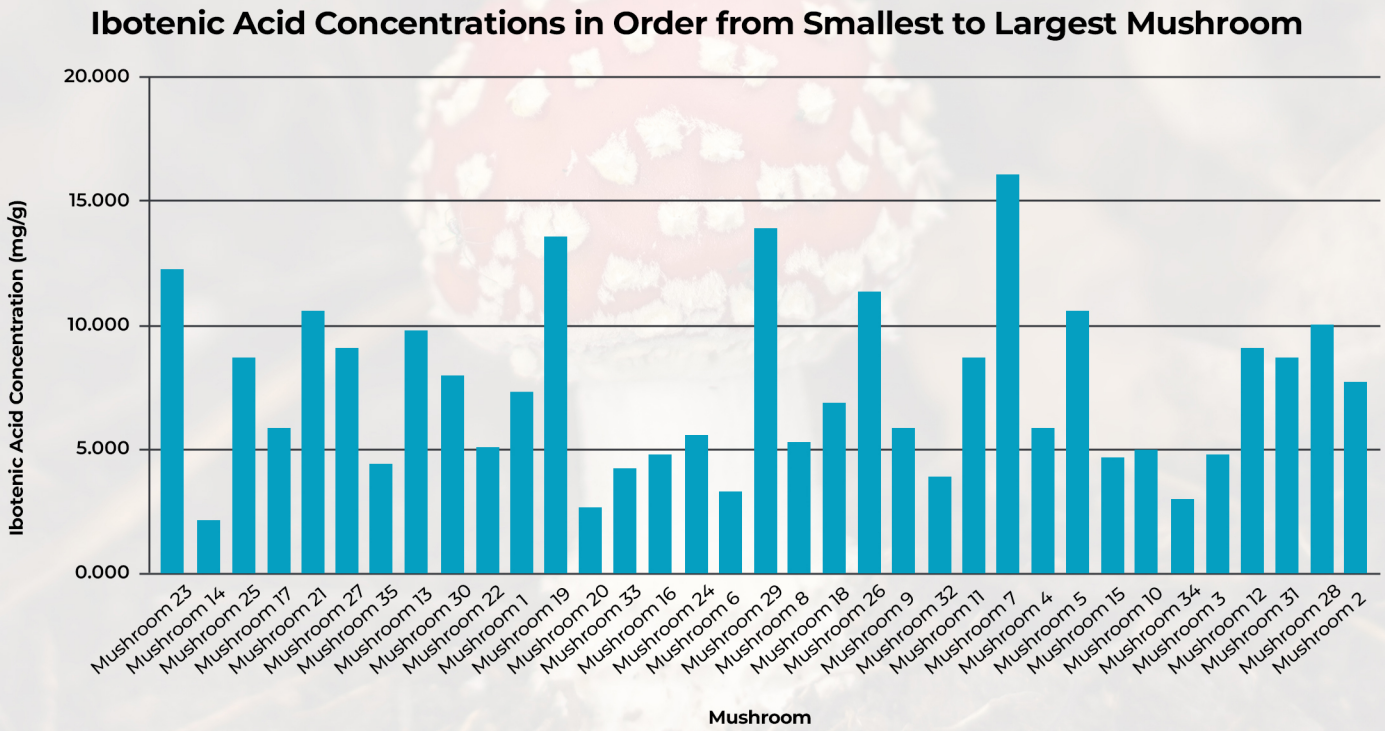


Chart 2: Comparison of Ibotenic Acid concentrations in order from smallest to largest mushroom cap.



RESULTS

Chart 3: Comparison of Muscimol Concentrations.

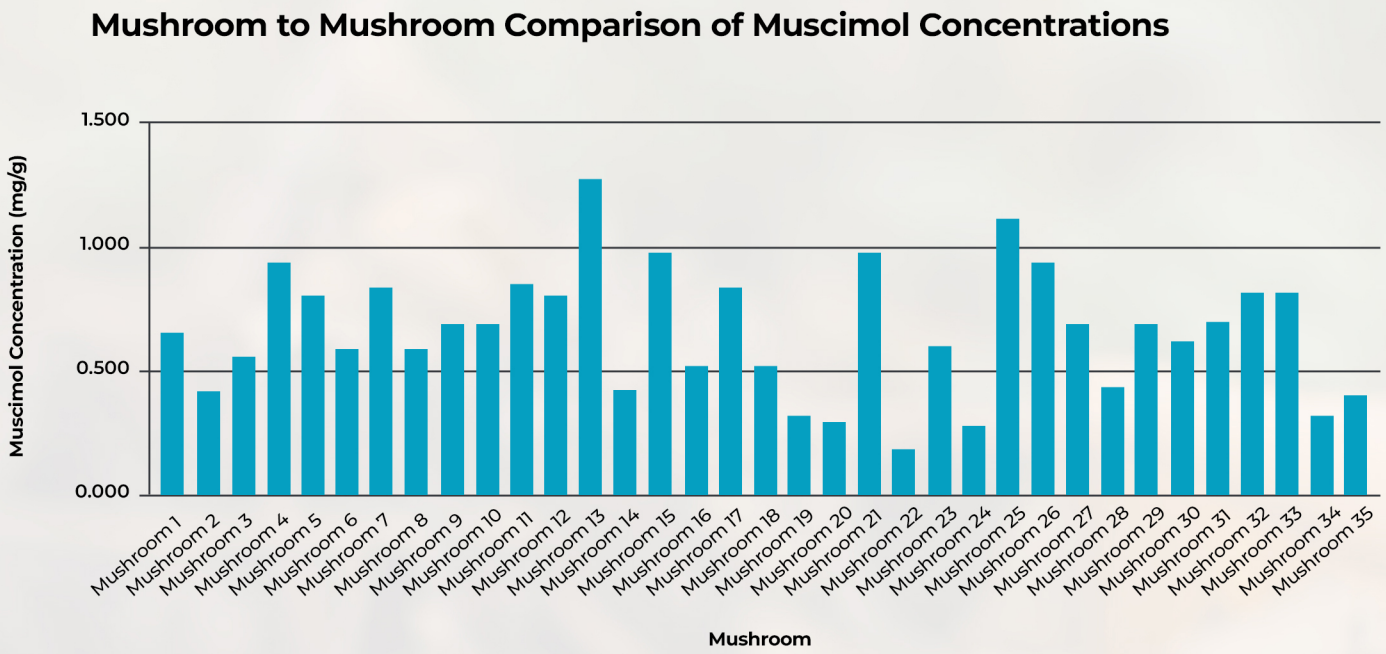
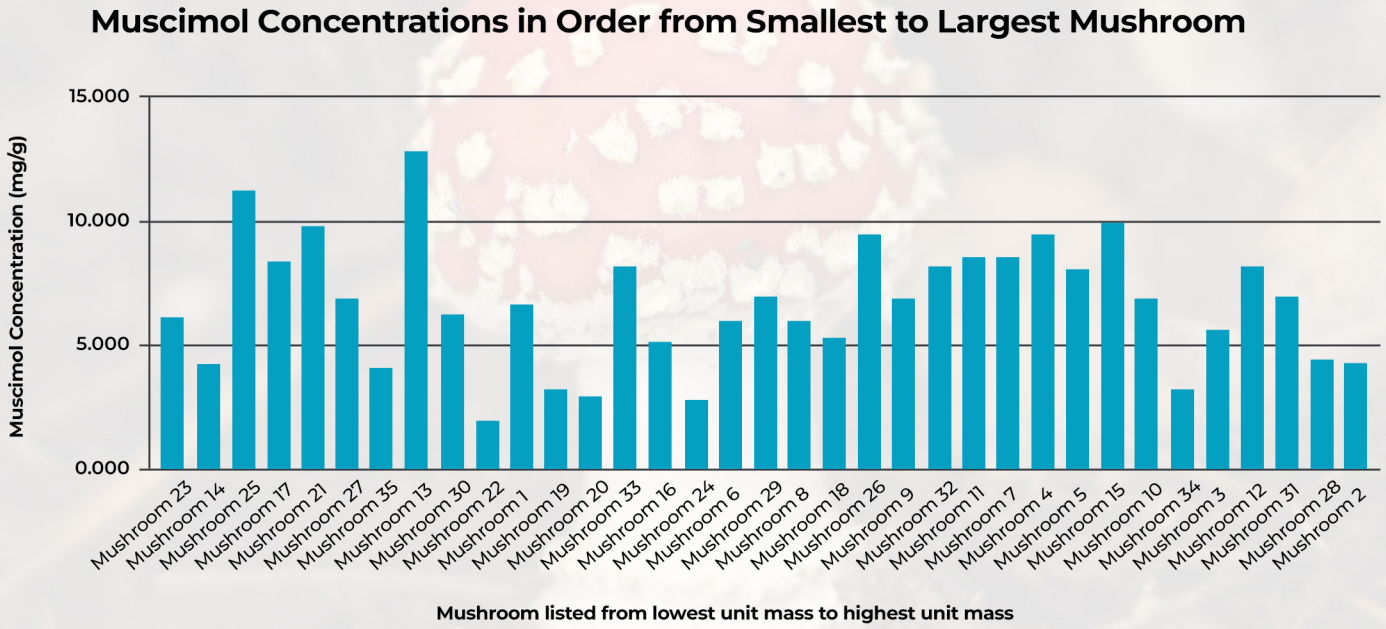


Chart 4: Comparison of Muscimol concentrations in order from smallest to largest mushroom cap.



RESULTS

For each mushroom cap, the total Ibotenic Acid and Muscimol amounts were calculated. Table 3 shows the total Ibotenic Acid and Muscimol amounts for each mushroom cap. Table 4 shows the average total Ibotenic Acid and total Muscimol amounts for this set of 35 mushroom caps.

Table 3: Total Ibotenic Acid and Muscimol Amounts for each individual Mushroom cap.

Sample ID	Unit Mass (g)	Ibotenic Acid (mg/unit)	Muscimol (mg/unit)	Total Ibotenic Acid + Muscimol (mg/unit)
SD240329-008	1.611	11.747	1.049	12.796
SD240329-009	9.303	71.162	3.842	75.004
SD240329-010	4.840	22.673	2.685	25.358
SD240329-011	3.162	18.338	2.953	21.291
SD240329-012	3.479	36.587	2.786	39.374
SD240329-013	2.040	6.653	1.207	7.860
SD240323-014	3.090	49.556	2.592	52.147
SD240329-015	2.140	11.247	1.263	12.510
SD240329-016	2.625	15.313	1.788	17.101
SD240329-017	3.785	18.855	2.585	21.440
SD240329-018	2.937	25.404	2.492	27.896
SD240329-019	5.115	46.573	4.100	50.673
SD240329-020	1.341	13.092	1.703	14.795
SD240329-021	0.622	1.276	0.260	1.536
SD240329-022	3.515	16.299	3.439	19.739
SD240329-023	1.782	8.541	0.913	9.454
SD240329-024	0.750	6.229	0.621	6.850
SD240329-025	2.170	14.375	1.130	16.005
SD240329-026	1.701	22.934	0.545	23.479
SD240329-027	1,709	4.390	0.494	4.884
SD240329-028	0.383	3.257	0.855	4.112
SD240329-029	2.491	7.542	0.280	7.822
SD240329-030	0.508	6.210	0.306	6.516
SD240329-031	1.835	10.160	0.510	10.671
SD240329-032	0.725	6.386	0.803	7.189
SD240329-033	2.560	29.006	2.389	31.395
SD240329-034	1.269	11.429	0.868	12.297
SD240323-035	7.720	77.297	3.381	80.678
SD240329-036	2.060	28.648	1.416	30.065
SD240329-037	1.427	11.280	0.877	12.157
SD240329-038	7.552	65.263	5.220	70.483
SD240329-039	2.738	10.725	2.264	12.989
SD240329-040	1.722	7.231	1.389	8.620
SD240329-041	3.906	11.630	1.272	12.902
SD240329-063	1.329	5.743	0.529	6.272

Table 4: Average total Ibotenic Acid and Muscimol amounts.

	Unit Mass (g)	Ibotenic Acid (mg/g)	Muscimol (mg/g)
Average	2.728	20.387	1.737
Rel. Standard Deviation	0.752	0.957	0.719

RESULTS

Chart 5: Total Ibotenic Acid amounts in each mushroom cap.

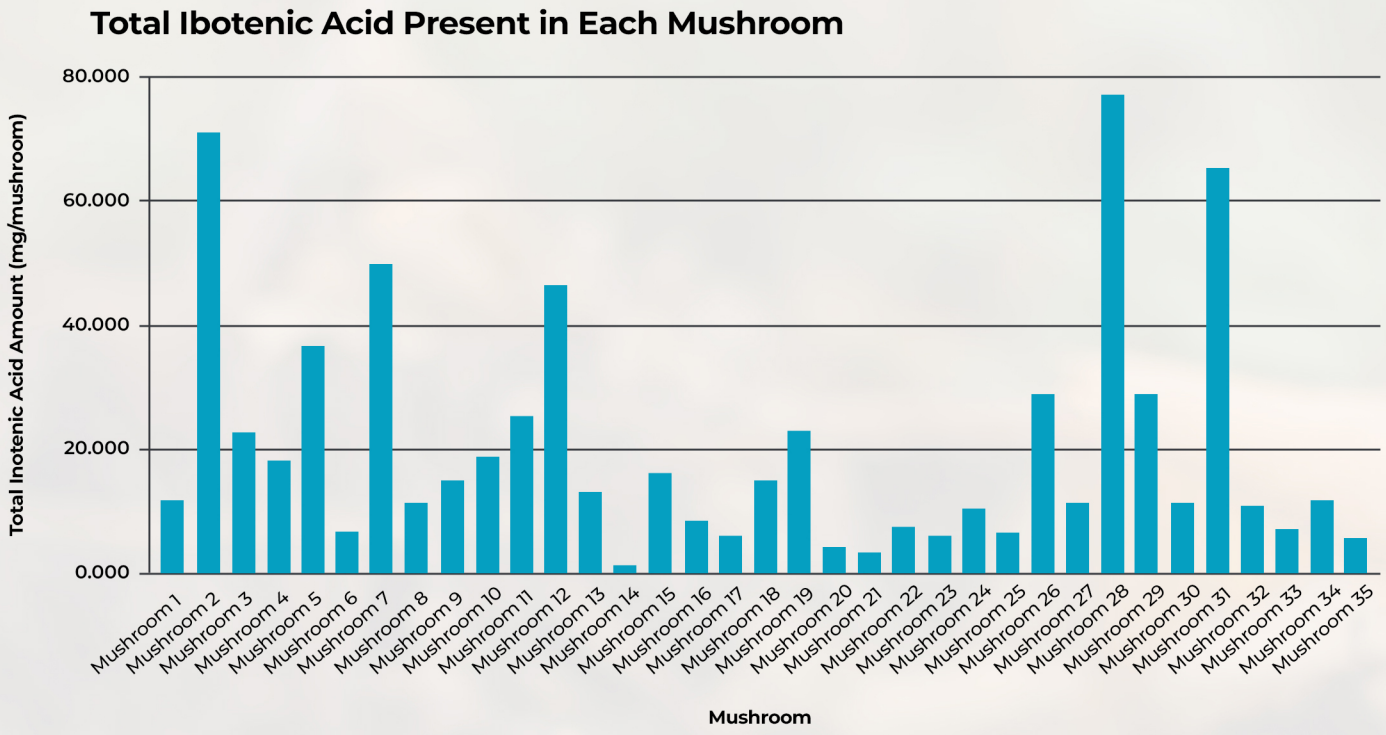
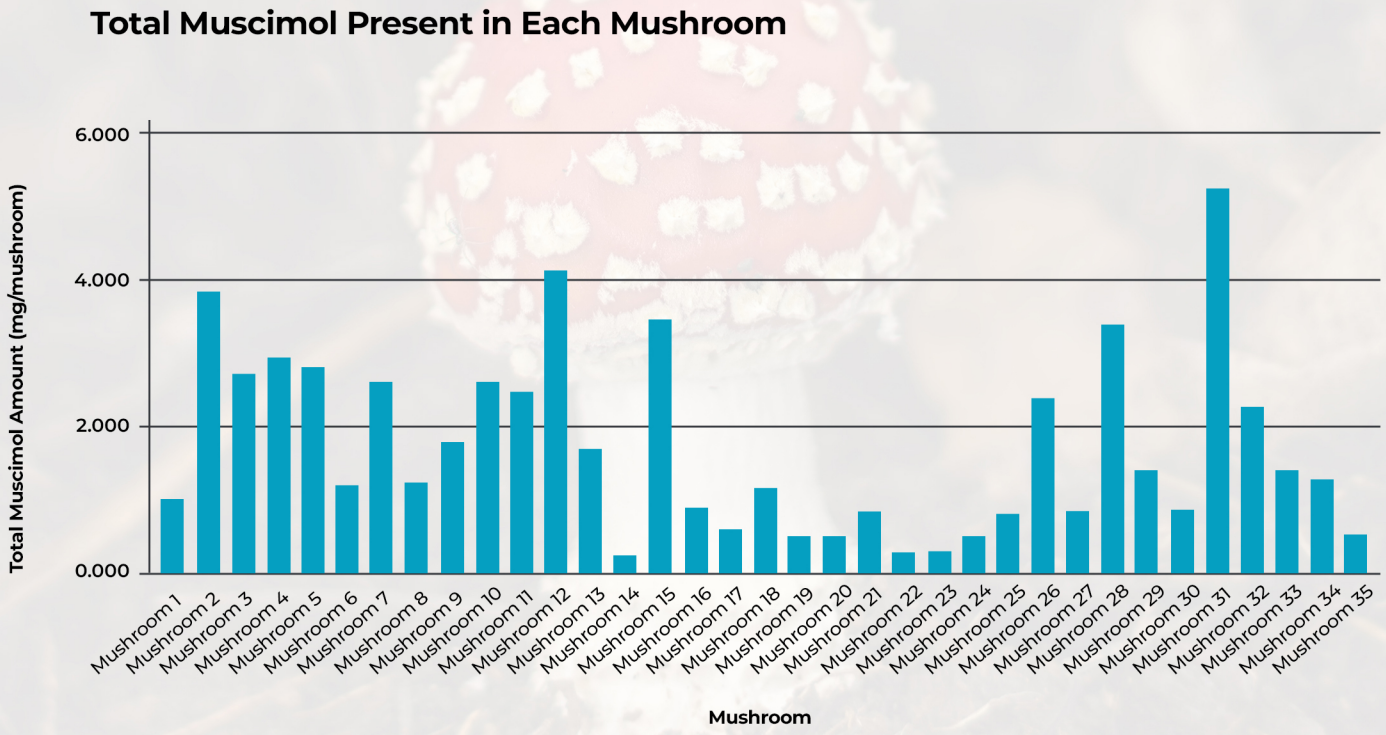


Chart 6: Total Muscimol amounts in each mushroom cap.



RESULTS

Chart 7: : Total Ibotenic Acid in mushroom caps ordered from lowest unit mass to largest unit mass.

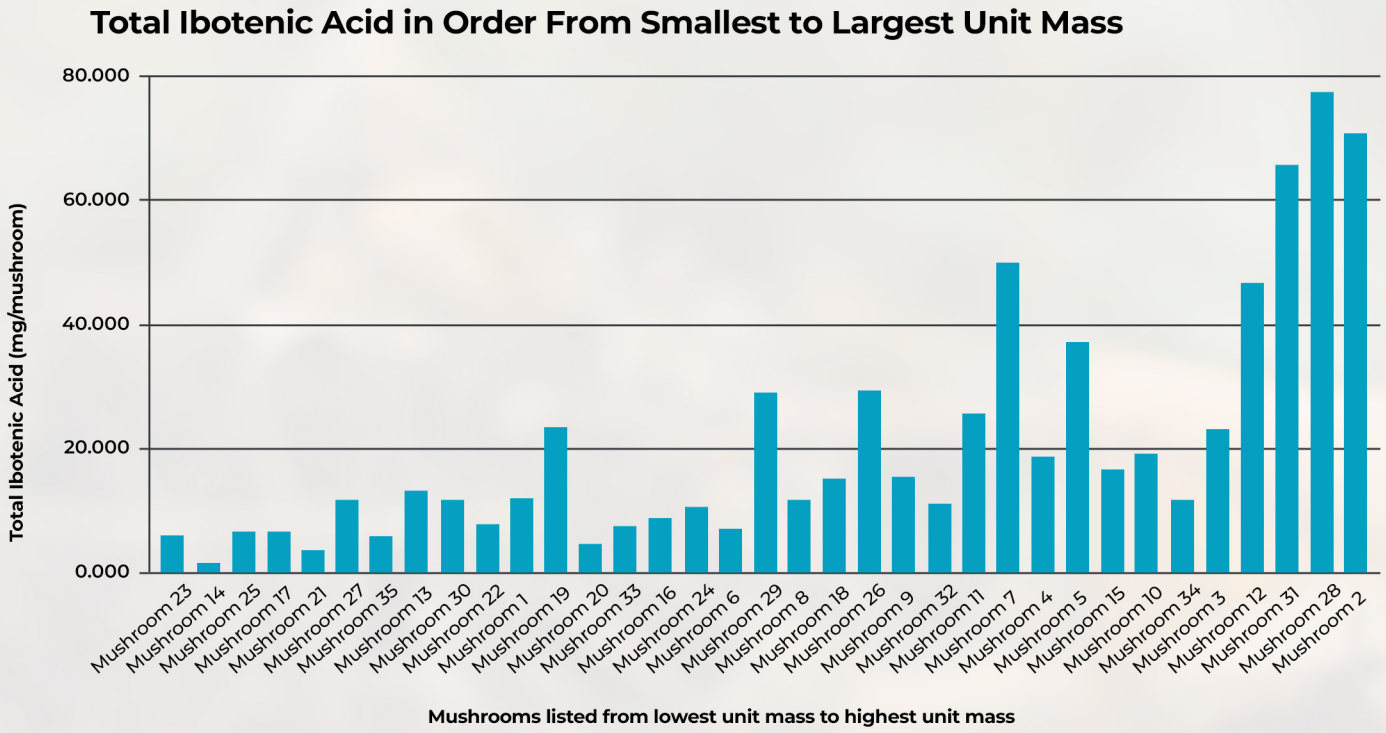
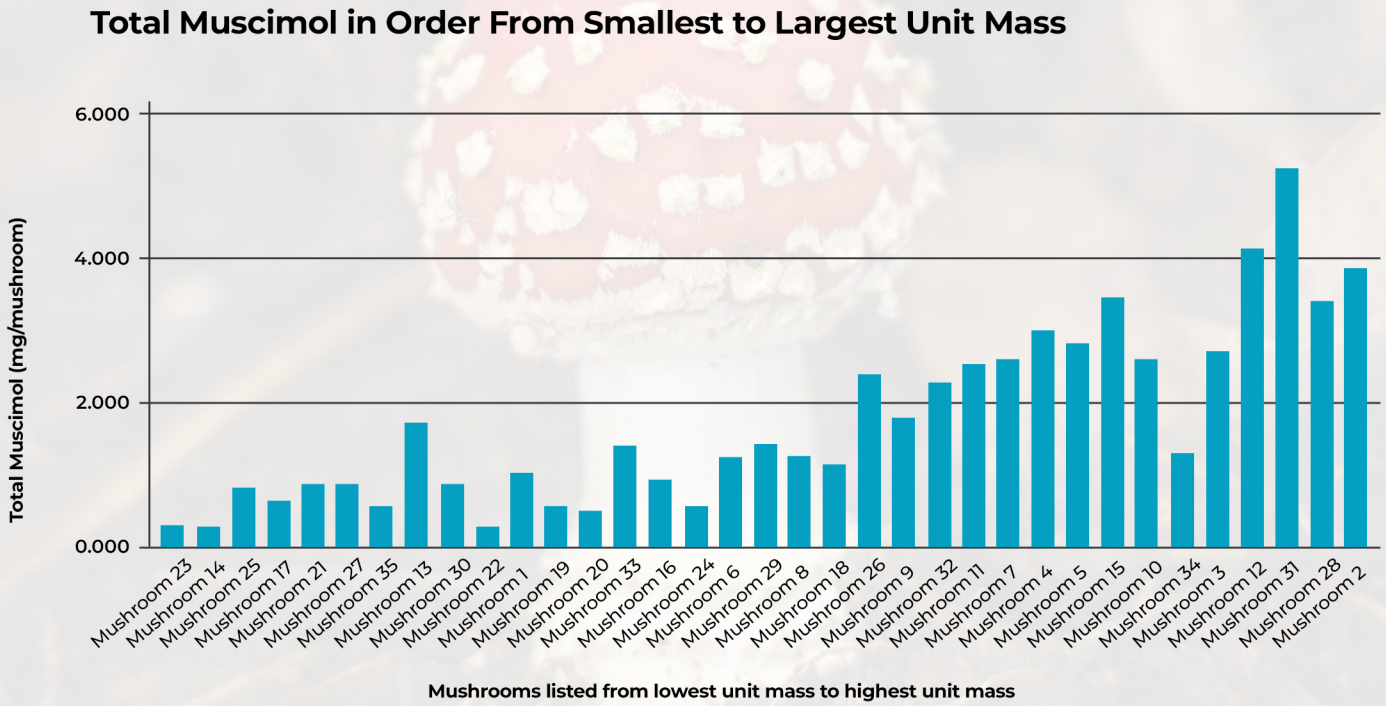
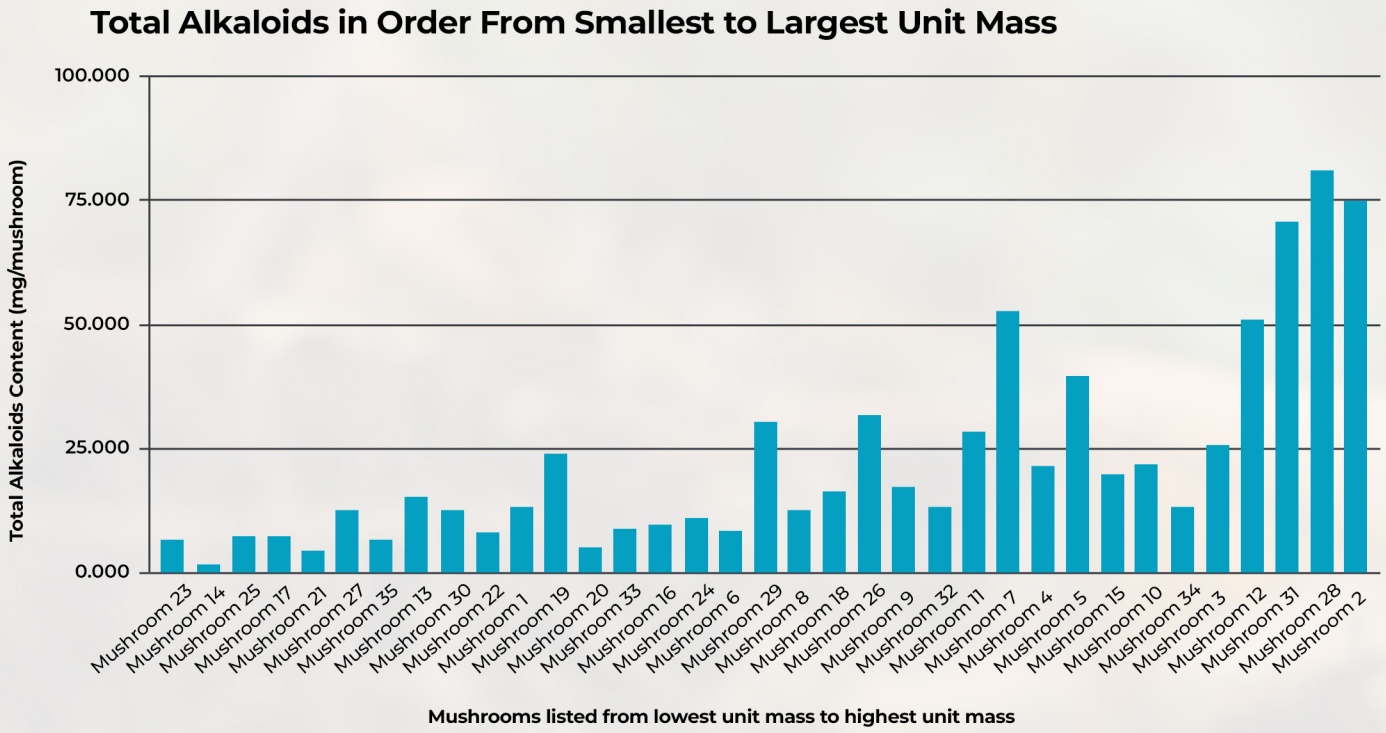


Chart 8: Total Muscimol in mushroom caps ordered from lowest unit mass to largest unit mass.



RESULTS

Chart 9: : Total Alkaloids in mushroom caps ordered from lowest unit mass to largest unit mass.



RESULTS

For each mushroom cap, the ratio of Ibotenic Acid to Muscimol concentrations was considered. Table 5 shows the ratio of Ibotenic Acid to Muscimol concentrations for each mushroom cap. Table 6 shows the average ratio of Ibotenic to Muscimol concentrations for this set of 35 mushroom caps.

Table 5: Ratio of Ibotenic Acid Concentration to Muscimol Concentration.

Sample ID	Unit Mass (g)	Mushroom #	Ratio of Ibotenic to Muscimol (mg/g)
SD240329-008	1.611	Mushroom 1	11.201
SD240329-009	9.303	Mushroom 2	18.521
SD240329-010	4.840	Mushroom 3	8.440
SD240329-011	3.162	Mushroom 4	6.209
SD240329-012	3.479	Mushroom 5	13.130
SD240329-013	2.040	Mushroom 6	5.508
SD240329-014	3.090	Mushroom 7	19.114
SD240329-015	2.140	Mushroom 8	8.908
SD240329-016	2.625	Mushroom 9	8.565
SD240329-017	3.785	Mushroom 10	7.294
SD240329-018	2.937	Mushroom 11	10.188
SD240329-019	5.115	Mushroom 12	11.353
SD240329-020	1.341	Mushroom 13	7.687
SD240329-021	0.622	Mushroom 14	4.897
SD240329-022	3.515	Mushroom 15	4.736
SD240329-023	1.782	Mushroom 16	9.381
SD240329-024	0.750	Mushroom 17	10.030
SD240329-025	2.270	Mushroom 18	13.157
SD240329-026	1.701	Mushroom 19	42.134
SD240329-027	1.709	Mushroom 20	8.889
SD240329-028	0.883	Mushroom 21	3.811
SD240329-029	1.491	Mushroom 22	26.910
SD240329-030	0.508	Mushroom 23	20.307
SD240329-031	1.835	Mushroom 24	19.917
SD240329-032	0.725	Mushroom 25	7.949
SD240329-033	2.560	Mushroom 26	12.144
SD240329-034	1.269	Mushroom 27	13.187
SD240329-035	7.720	Mushroom 28	22.881
8D240329-036	2.060	Mushroom 29	20.214
SD240329-037	1.427	Mushroom 30	12.875
SD240329-038	7.552	Mushroom 31	12.507
SD240329-039	2.788	Mushroom 32	4.738
SD240329-040	1.722	Mushroom 33	5.203
SD240329-041	3.906	Mushroom 34	9.132
SD240329-063	2.319	Mushroom 35	10.858

Table 6: Average ratio of Ibotenic Acid to Muscimol Concentrations.

	Unit Mass (g)	Ration of Ibotenic to Muscimol (mg/g)
Average	2.728	12.340
Rel. Standard Deviation	0.752	0.623

RESULTS

Chart 10: Ratio of Ibotenic Acid to Muscimol concentrations.

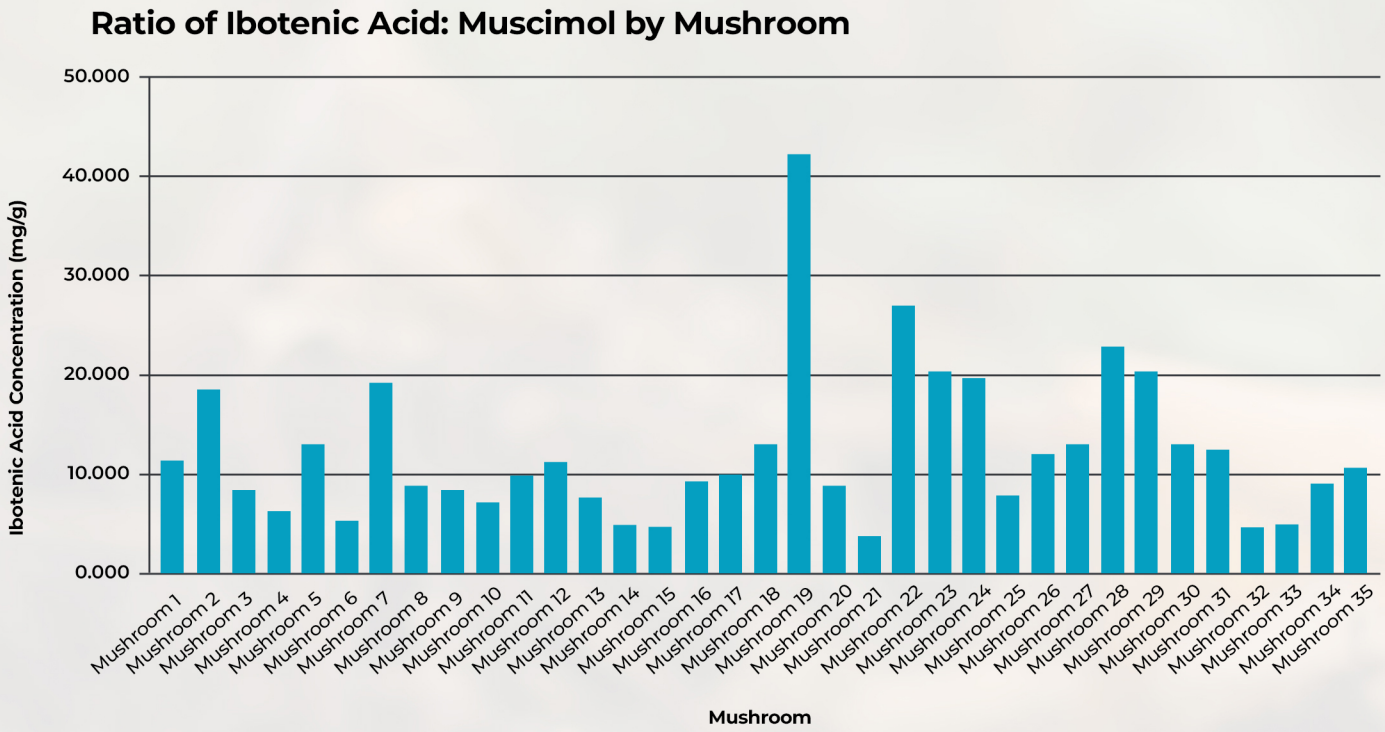
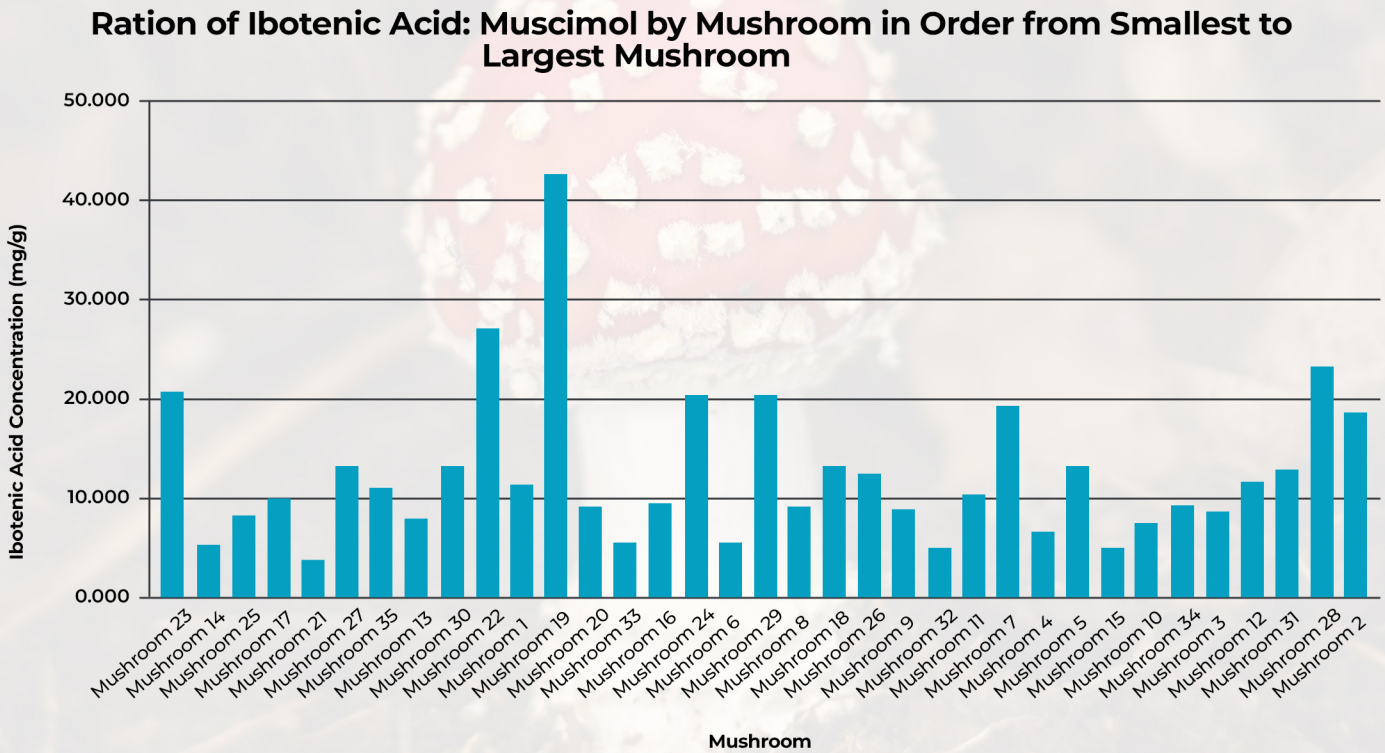


Chart 11: Ratio of Ibotenic Acid to Muscimol Concentration in order from smallest to largest mushroom.



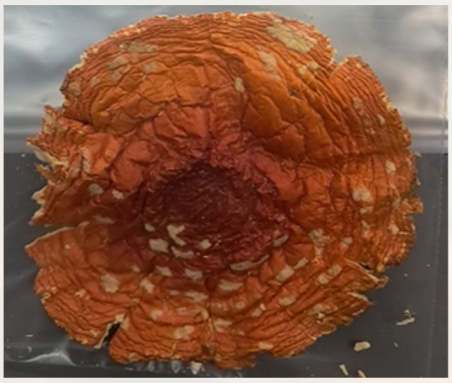
COLOR/MORPHOLOGY OF INDIVIDUAL MUSHROOM

Physical characteristics of each mushroom were also taken into consideration. Of the 35 mushroom caps, there were 3 groups of color for this mushroom set. The mushrooms were split into a Brown group, Bright Red group, and a Dark Red group. In addition to the color of the mushroom, the "spot" pattern was also considered. There were 5 types of Spot patterns that were identified.

Spot Pattern



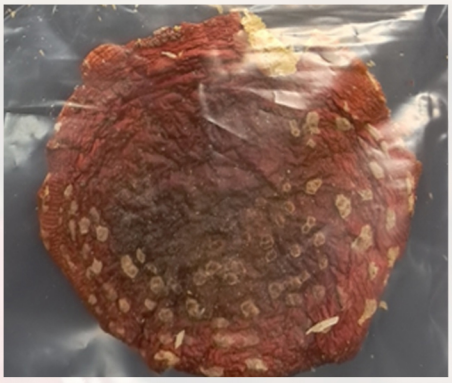
None: No spot patterns
Image: Mushroom 33 (SD240329-040)



Outer: Spot pattern centralized on outside of mushroom cap
Image: Mushroom 32 (SD240329-039)



Inner: Spot pattern centralized on inside of mushroom cap
Image: Mushroom 5 (SD240329-012)



Uniform: Spot pattern uniformly spread throughout the mushroom cap
Image: Mushroom 4 (SD240329-011)



Sporadic: Spot pattern randomly spread across the mushroom cap
Image: Mushroom 35 (SD240329-063)

RESULTS

Table 7: Visual characteristics of each mushroom based on color and spot pattern.

Color	Mushroom	Spot Pattern	Sample ID
Brown	Mushroom 23	Outer	SD240329-030
	Mushroom 17	Outer	SD240329-024
	Mushroom 27	Outer	SD240329-034
	Mushroom 30	Sporadic	SD240329-037
	Mushroom 20	Uniform	SD240329-027
	Mushroom 18	Inner	SD240329-025
	Mushroom 26	Uniform	SD240329-033
	Mushroom 11	Uniform	SD240329-018
	Mushroom 7	Uniform	SD240329-014
Bright Red	Mushroom 14	None	SD240329-021
	Mushroom 25	Sporadic	SD240329-032
	Mushroom 21	Sporadic	SD240329-028
	Mushroom 35	Sporadic	SD240329-063
	Mushroom 13	None	SD240329-020
	Mushroom 1	Inner	SD240329-008
	Mushroom 33	None	SD240329-040
	Mushroom 16	None	SD240329-023
	Mushroom 24	None	SD240329-031
	Mushroom 6	Sporadic	SD240329-013
	Mushroom 29	None	SD240329-036
	Mushroom 9	Uniform	SD240329-016
	Mushroom 32	Outer	SD240329-032
	Mushroom 5	Inner	SD240329-012
	Mushroom 15	None	SD240329-022
	Mushroom 34	Sporadic	SD240329-034
	Mushroom 31	Uniform	SD240329-031
	Mushroom 28	Uniform	SD240329-035
	Mushroom 2	Inner	SD240329-009
Dark Red	Mushroom 22	Outer	SD240329-029
	Mushroom 19	Sporadic	SD240329-026
	Mushroom 8	Uniform	SD240329-015
	Mushroom 4	Uniform	SD240329-011
	Mushroom 10	Uniform	SD240329-017
	Mushroom 3	Outer	SD240329-010
	Mushroom 12	Sporadic	SD240329-012

RESULTS

Chart 12: Ibotenic Acid concentration based on Color and Size.

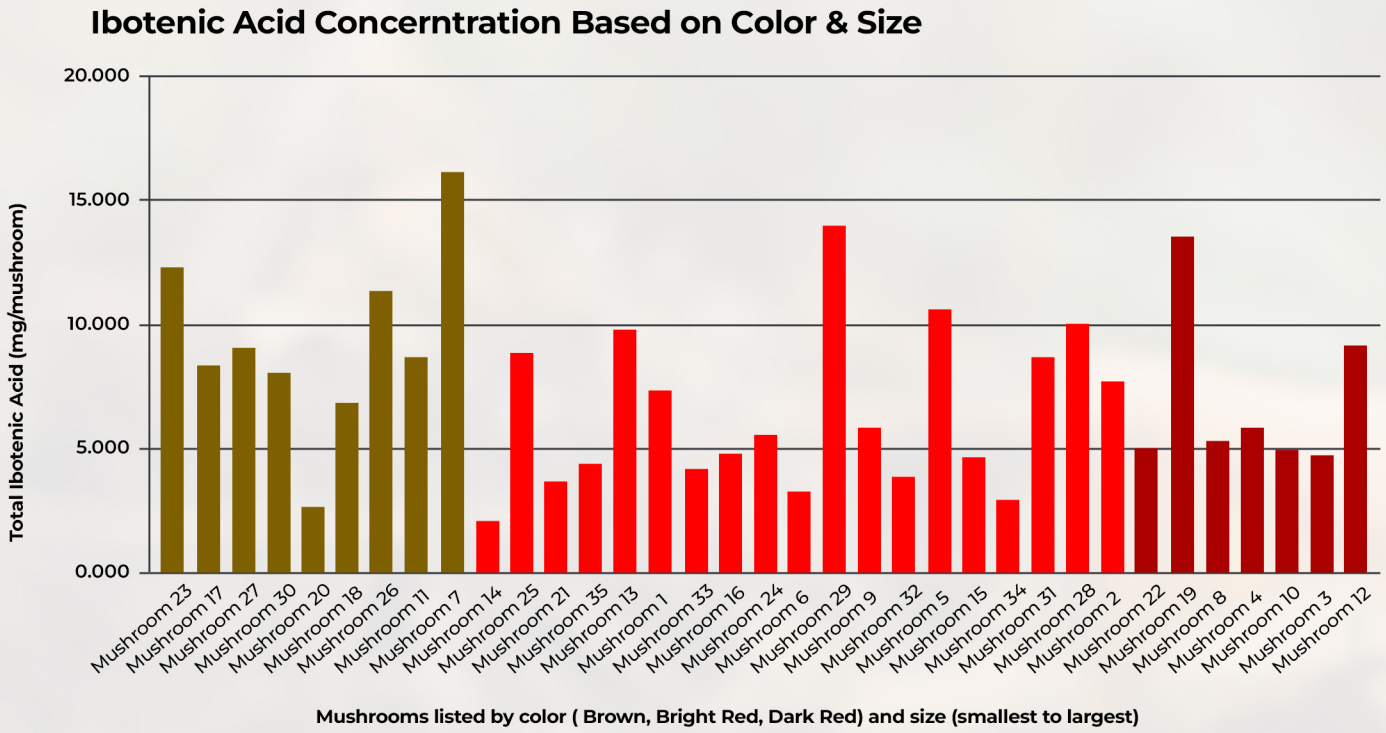
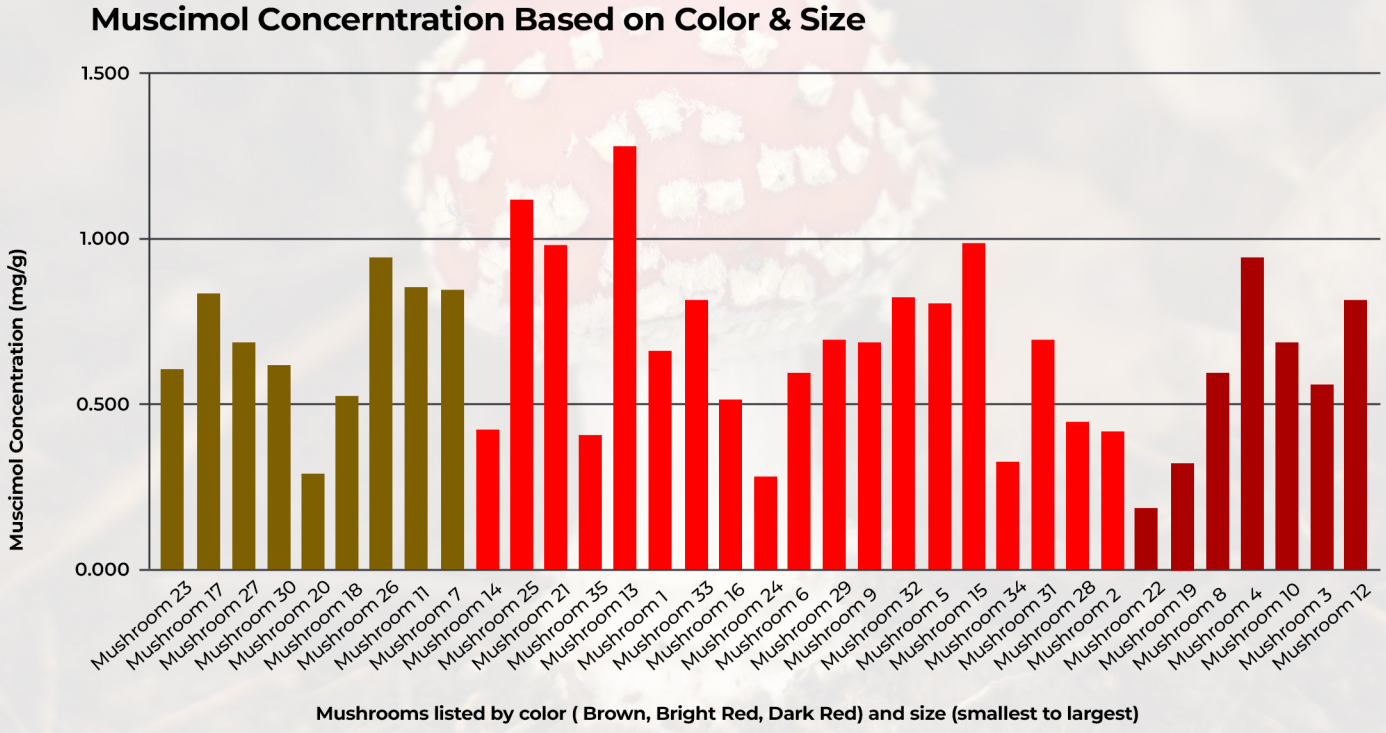


Chart 13: Muscimol concentration based on Color and Size.



RESULTS

Chart 14: Ratio of Ibotenic Acid to Muscimol based on Color and Size.

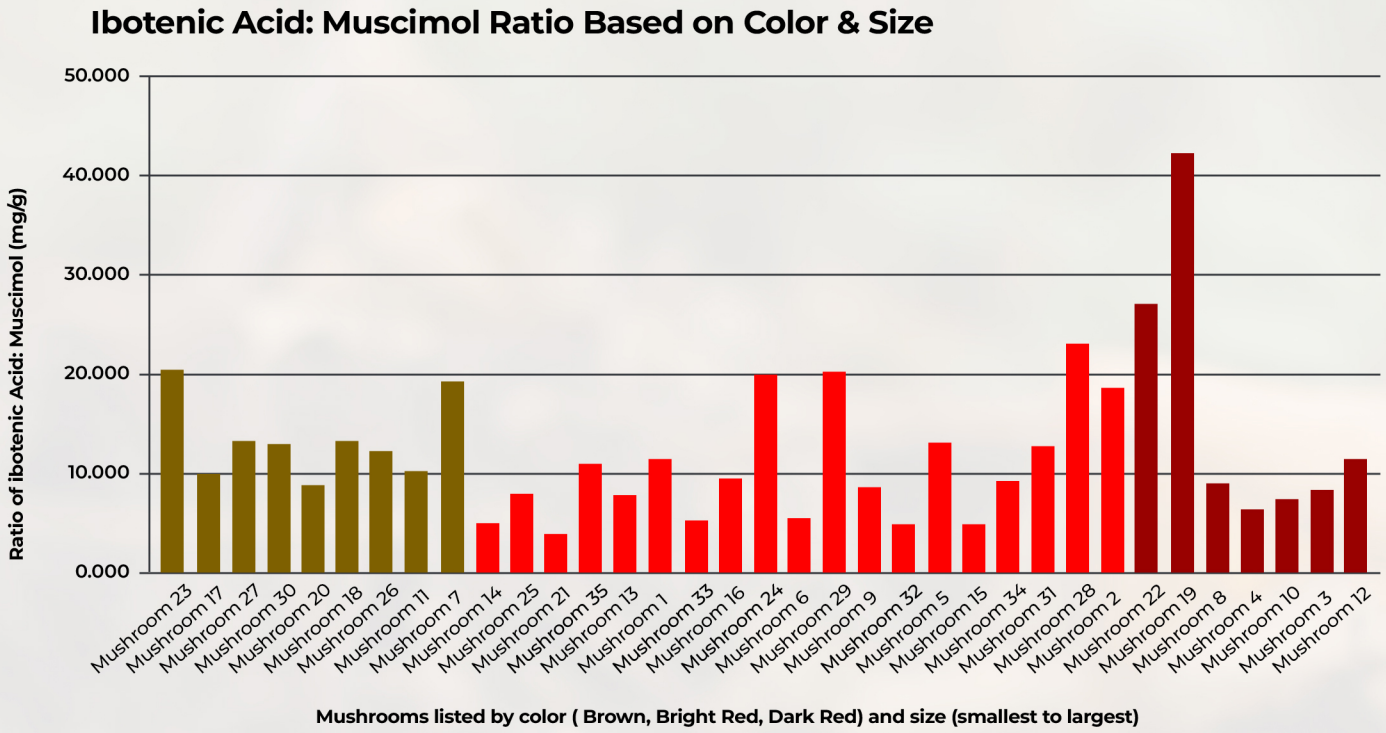
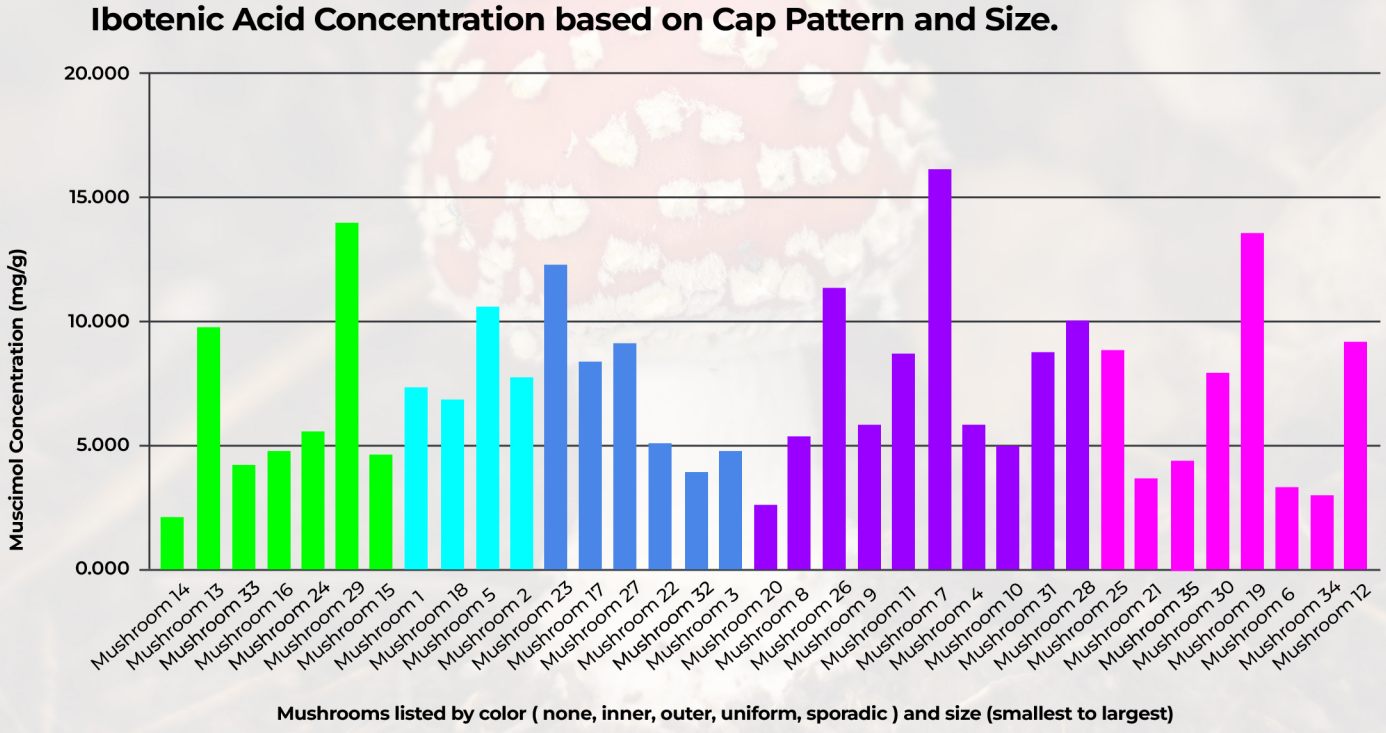


Chart 15: Ibotenic Acid Concentration based on Cap Pattern and Size.



RESULTS

Chart 16: Muscimol Concentration based on Cap Pattern and Size.

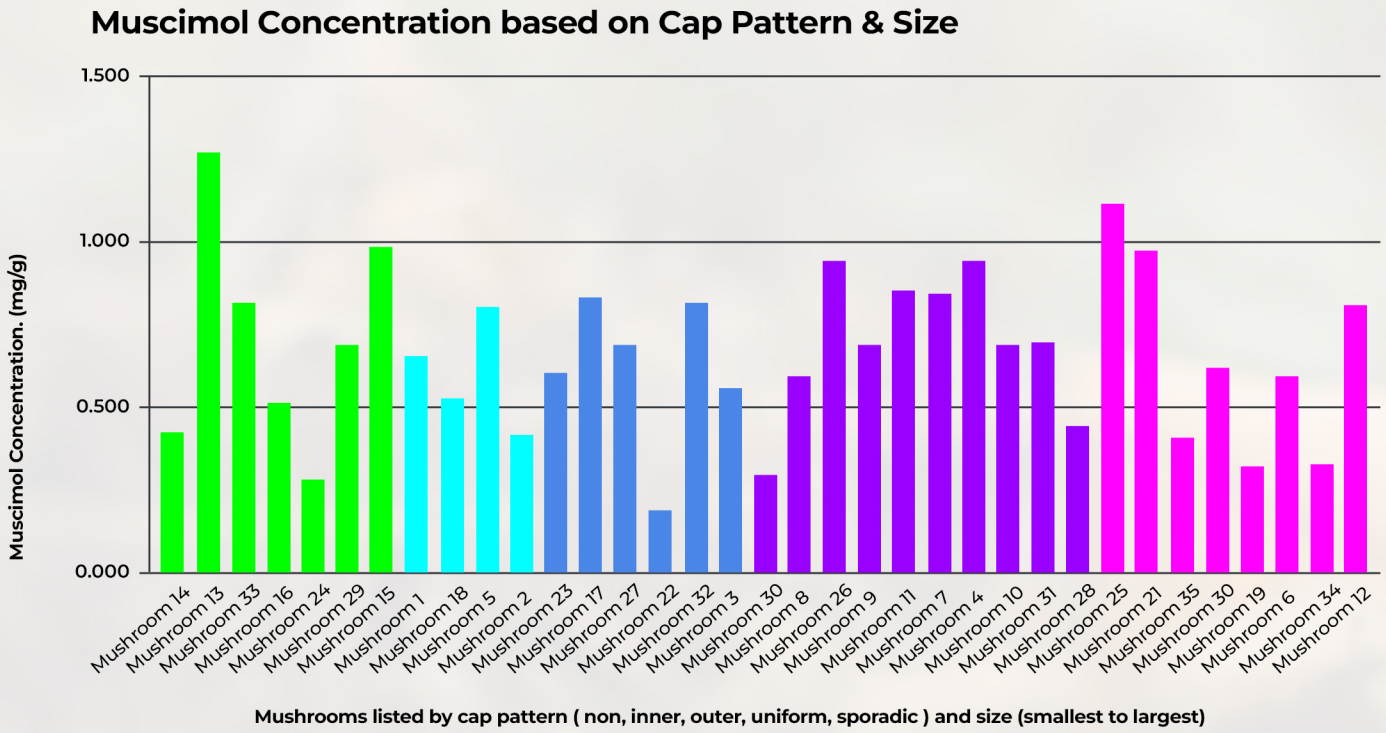
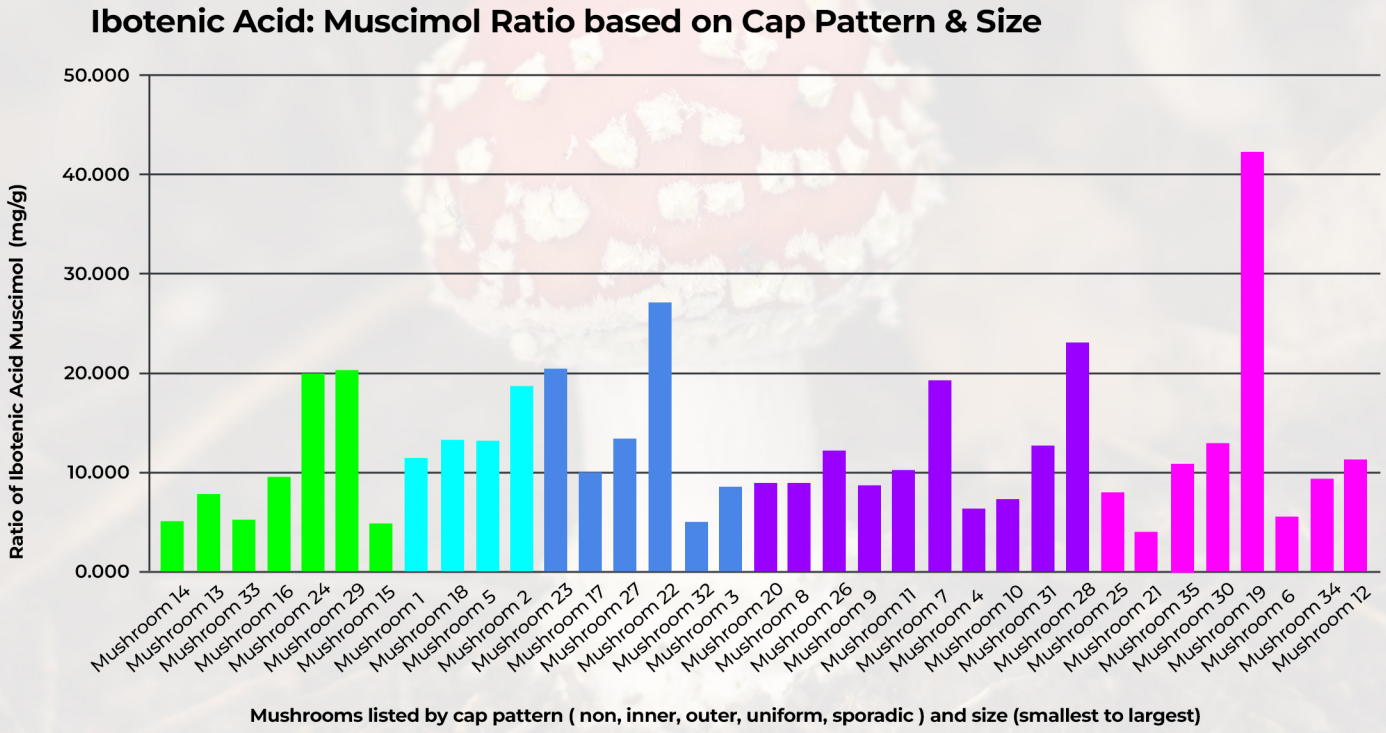


Chart 17: Ratio of Ibotenic Acid to Muscimol based on Cap Pattern and Size.



RESULTS

Chart 18: Total Ibotenic Acid based on Color and Size.

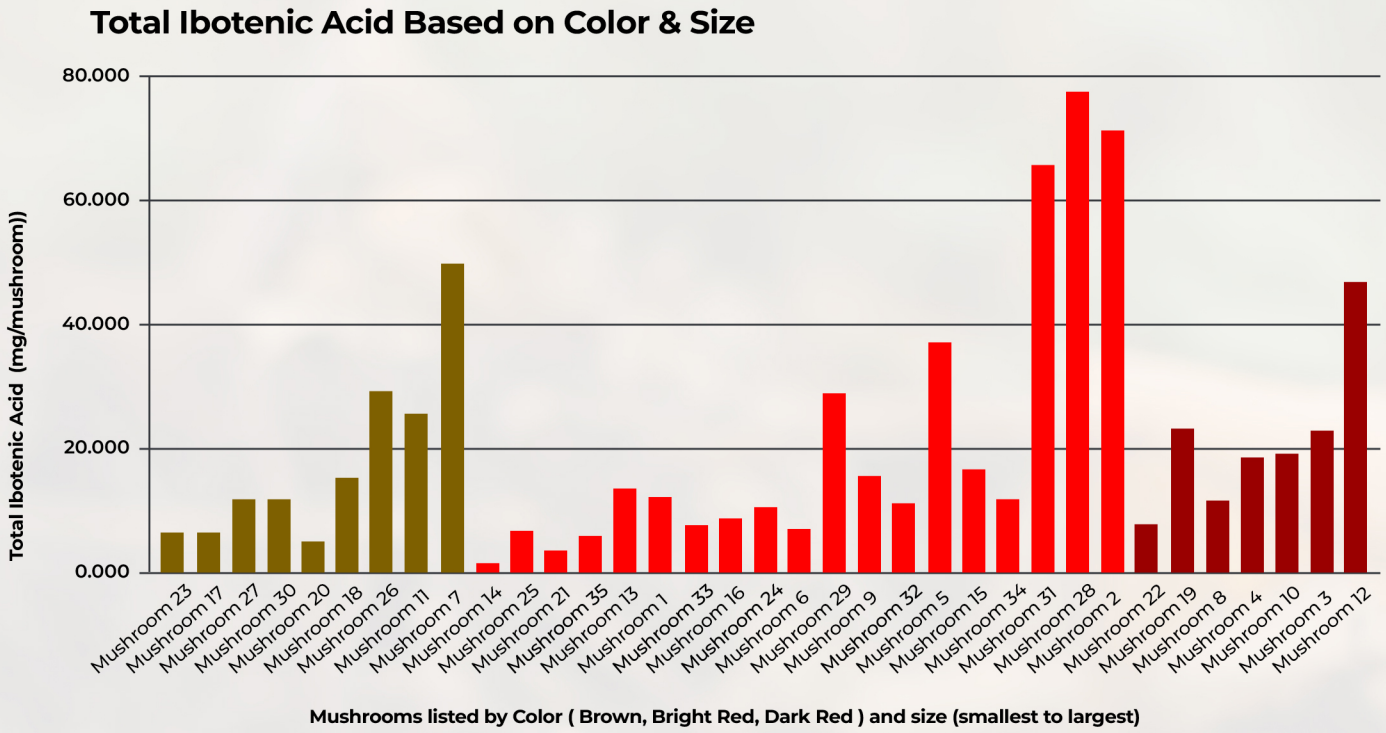
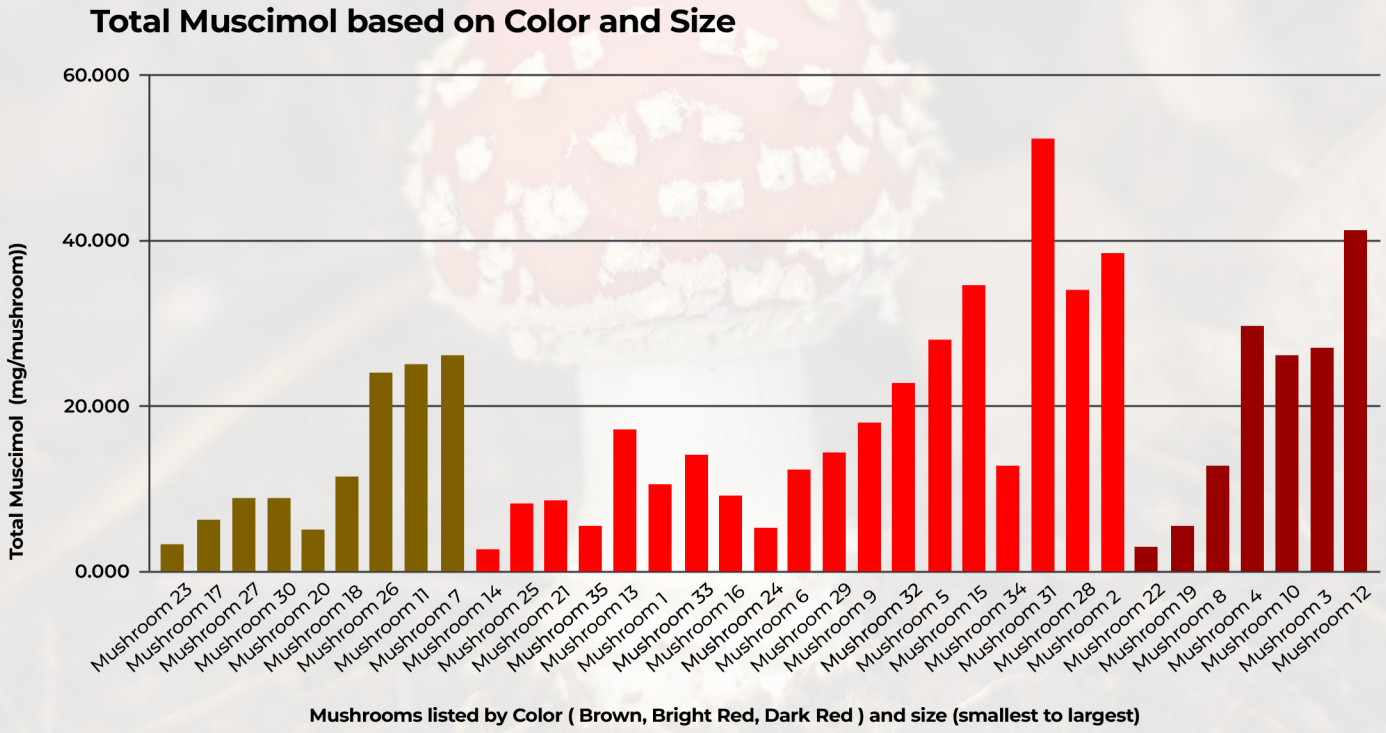


Chart 19: Total Muscimol based on Color and Size.



RESULTS

Chart 20: Total Alkaloids based on Color and Size.

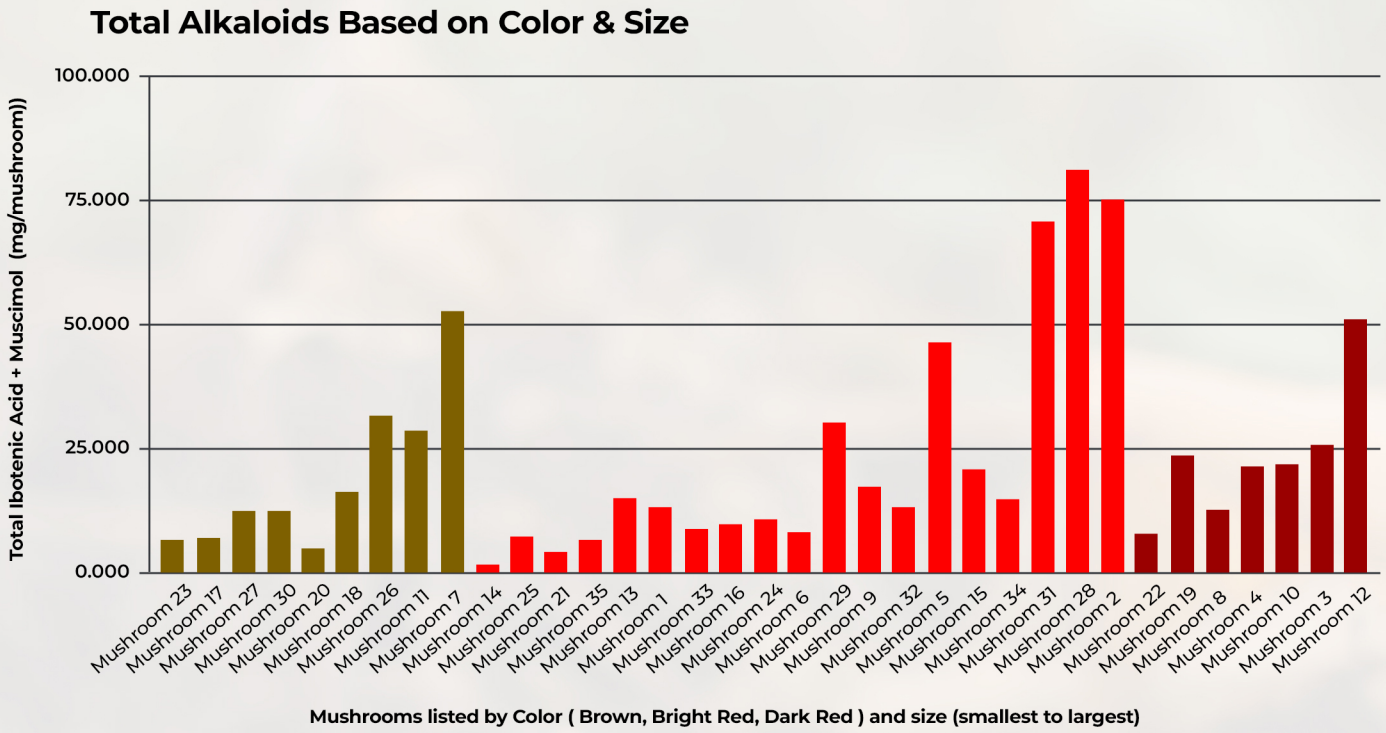
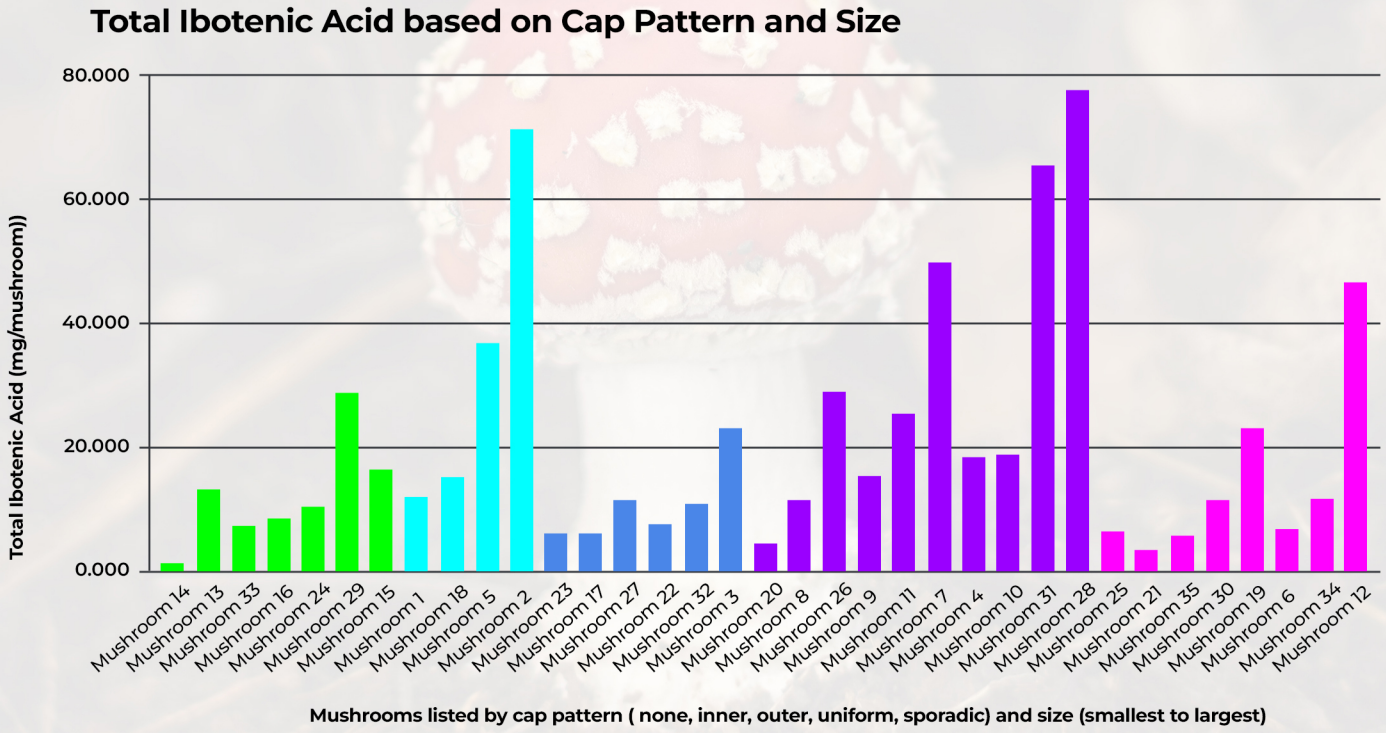


Chart 21: Total Ibotenic Acid based on Cap Pattern and Size.



RESULTS

Chart 22: Total Muscimol based on Cap Pattern and Size.

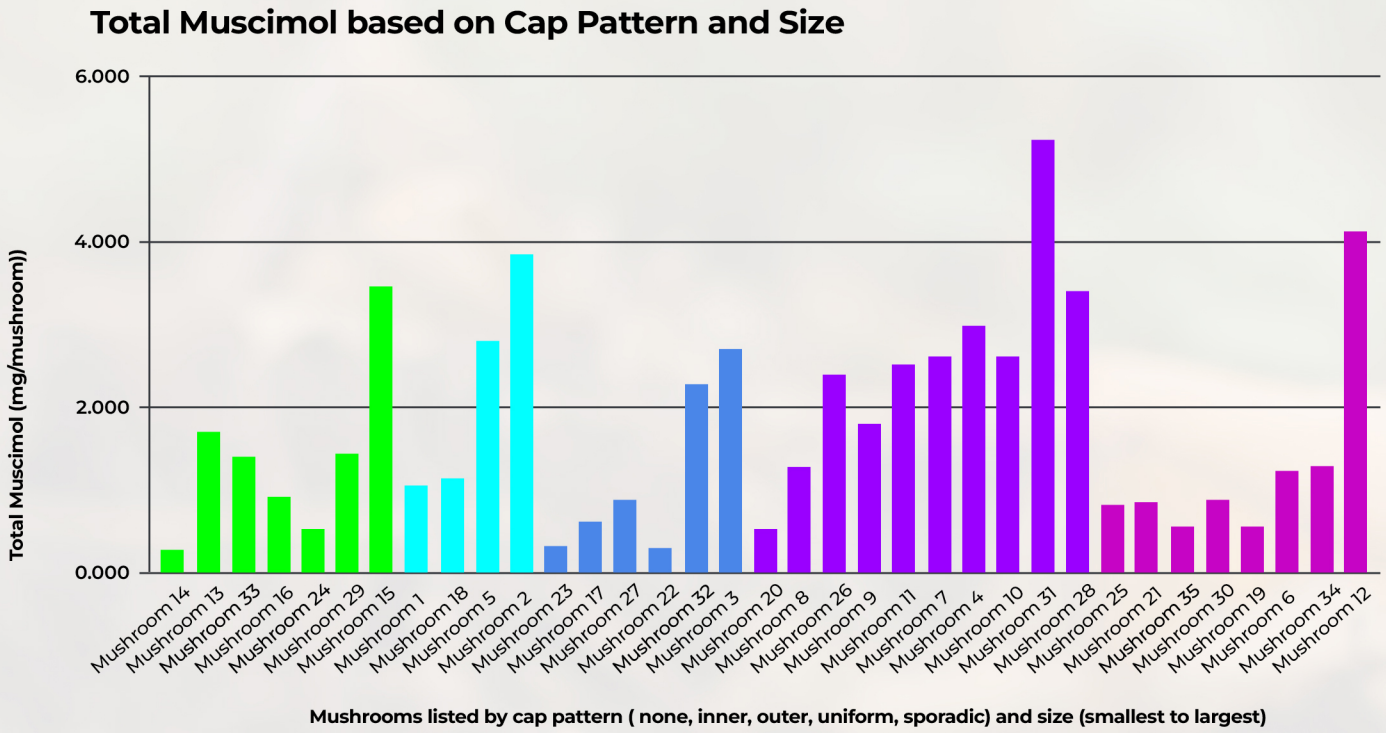
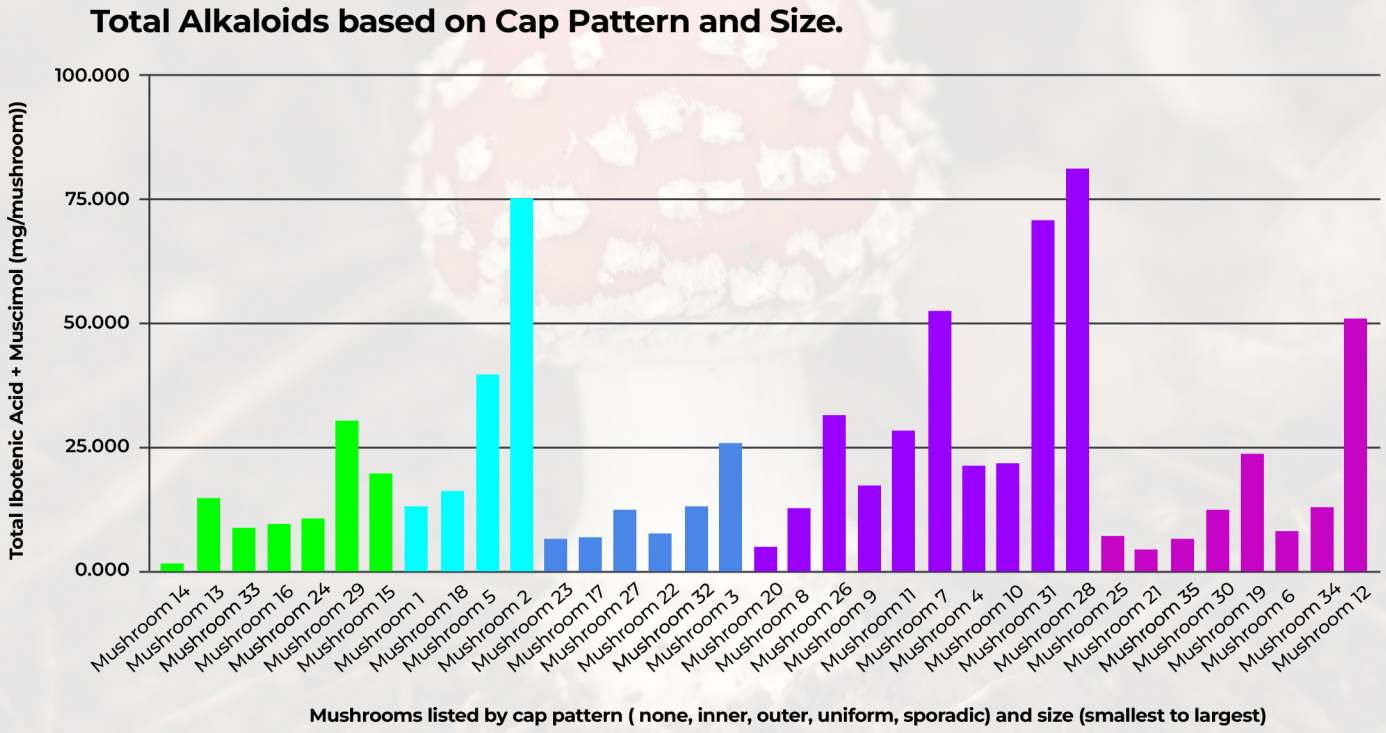


Chart 23: Total Alkaloids based on Cap Pattern and Size.



DISCUSSION

Ibotenic Acid Concentrations

Ibotenic Acid concentrations varied for each individual mushroom cap. Ibotenic Acid concentrations do not appear to be influenced by the size of the mushroom. Ibotenic Acid concentrations do not appear to correlate with any spot pattern or color of mushroom. For this set of mushroom caps, we recorded a unit mass as low as 0.508 g and as high as 9.303 g. The average Ibotenic Acid concentration for these 35 mushroom caps was 7.229 mg/g with a low of 2.052 mg/g and a high of 16.037 mg/g.

Muscimol Concentrations

Muscimol concentrations varied for each individual mushroom cap but appear to be more consistent than Ibotenic Acid concentrations. Muscimol concentrations do not appear to be influenced by the size of the mushroom. Muscimol concentrations do not appear to correlate with any spot pattern or color of mushroom. For this set of mushroom caps, we recorded a unit mass as low as 0.508 g and as high as 9.303 g. The average Muscimol concentration for these 35 mushroom caps was 0.659 mg/g with a low of 0.188 mg/g and a high of 1.270 mg/g.

Total Ibotenic Acid

Total Ibotenic Acid amounts varied across the set of 35 mushroom caps. Generally, the larger the mushroom, the more Ibotenic Acid was present. When considering color and cap pattern, a similar trend was observed where the larger the mushroom the more Ibotenic Acid was present. There were exceptions to this trend as Mushroom 34 (SD240329-041) had a relatively large unit mass but reported low total levels of Ibotenic Acid. Mushroom 7 (SD240329-041) had an average unit mass but reported a total Ibotenic Acid amount that was the 4th highest of all the mushrooms tested.

Total Muscimol Amounts

Total Muscimol amounts varied across the set of 35 mushroom caps. Generally, the larger the mushroom, the more Muscimol was present. When considering color and cap pattern, a similar trend was observed where the larger the mushroom the more Muscimol was present. There was one exception to this trend as Mushroom 34 (SD240329-041) had a larger than average unit mass but reported low total levels of Muscimol.

Total Alkaloid Content (Ibotenic + Muscimol)

Total alkaloid content reported similarly to the trends of the individual analytes. Generally, the larger the mushroom, the greater the total alkaloid content.

Ratio of Ibotenic Acid to Muscimol

The ratio of Ibotenic Acid to Muscimol varied across the set of 35 mushroom caps. Larger or smaller mushroom caps did not report higher or lower ratios of Ibotenic Acid to Muscimol. The ratio of Ibotenic Acid to Muscimol does not appear to correlate with any spot pattern or color of mushroom.

DISCUSSION

CONCLUSION

The analysis of 35 Amanita Muscaria caps revealed significant variability in the concentrations of Ibotenic Acid and Muscimol. The data showed that while larger mushrooms generally contained higher total amounts of these alkaloids, no correlation was found between alkaloid concentrations and mushroom size, color, or spot pattern. The findings underscore the importance of individual testing for accurate potency assessment, given the lack of predictable patterns in alkaloid content. This variability suggests that consumers and researchers should exercise caution due to the unpredictable nature of these psychoactive substances. The study contributes valuable information to the field, supporting further research and enhanced safety protocols for the use of Amanita Muscaria mushrooms.

ACKNOWLEDGEMENTS

PharmLabs would like to thank our supplier for their contributions to this study. PharmLabs would also like to thank the analysts and technicians responsible for the preparation and data collection involved in this study. A special thanks to Wendy Harris, Hannah Salmans, Anh Chu, Rae Balagtas, Cassidy Stump, Fio Dongo, Katie Lim, and Nathan Yoder.

REFERENCES

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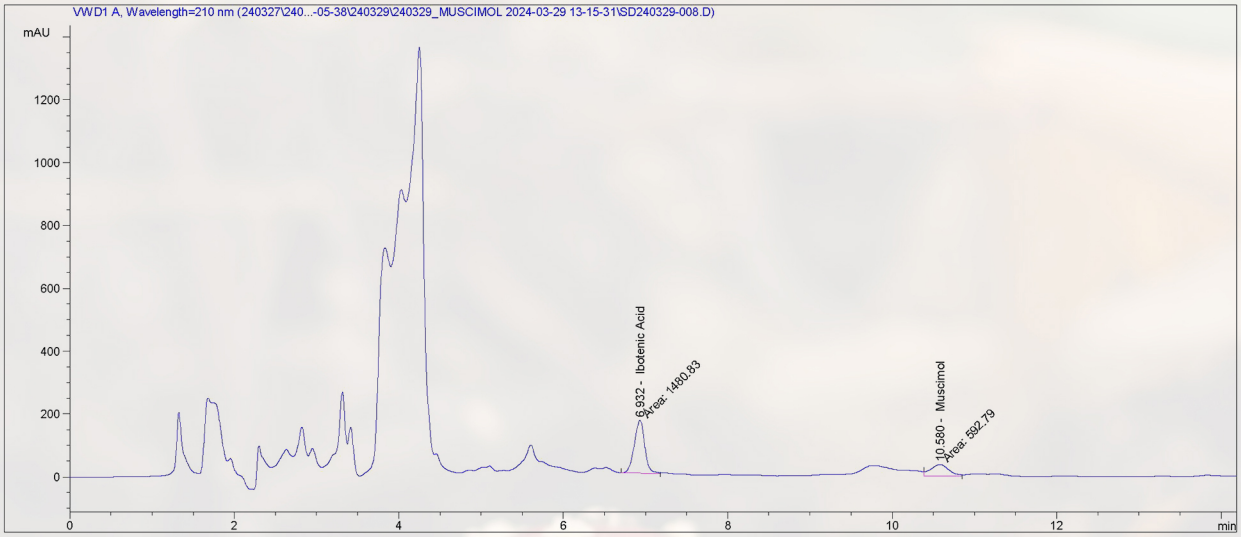
ANNEX OF CHROMATOGRAMS AND PHOTOS OF EACH MUSHROOM ANALYZED IN THIS STUDY

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                         External Standard Report
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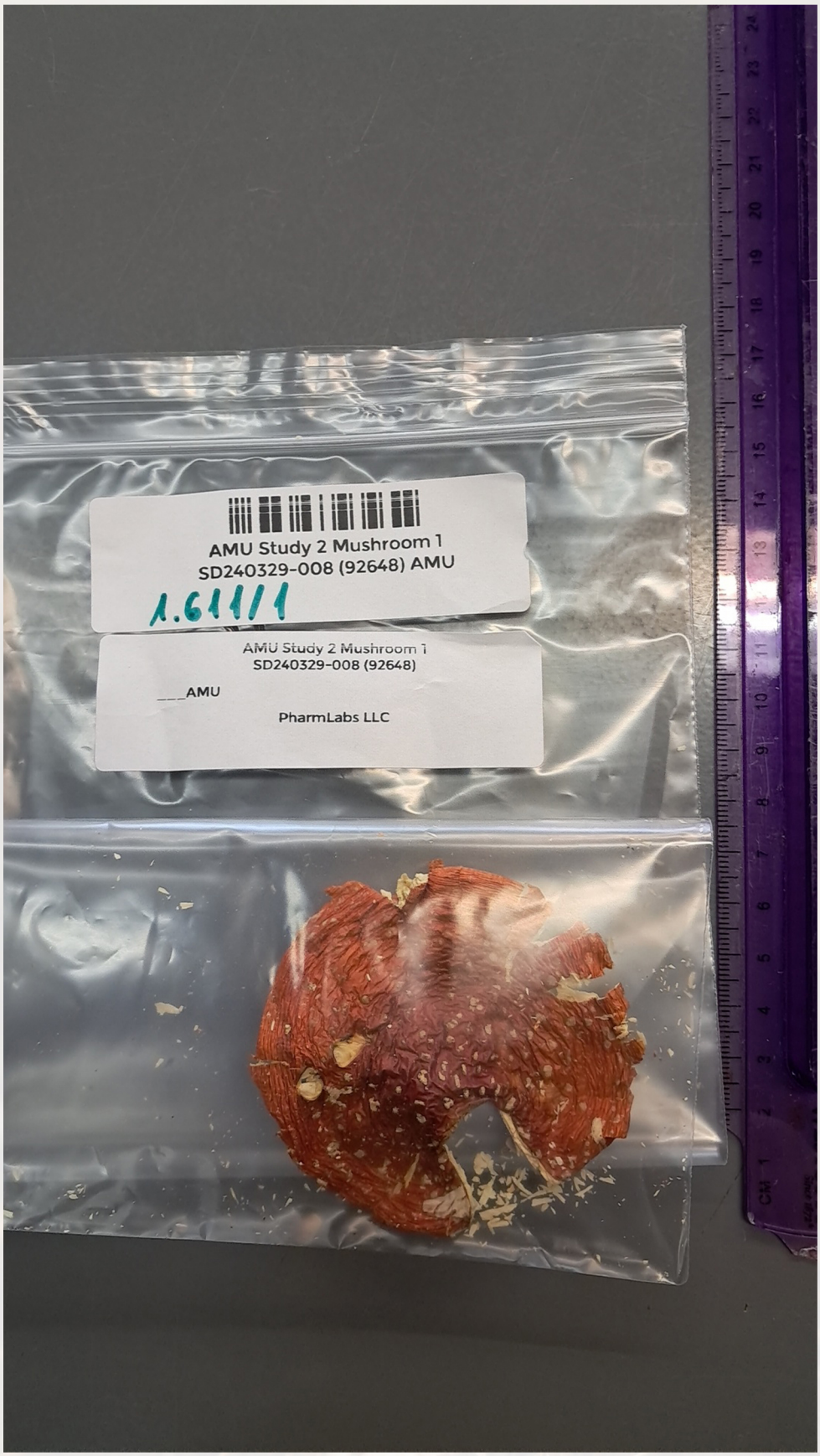
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    Dilution:                     :      1.0000
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      6.932  1 MF     1480.83228 4.99297e-1  739.37565    Ibotenic Acid
     10.580  1 FM T    592.78961 1.11358e-1   66.01192    Muscimol

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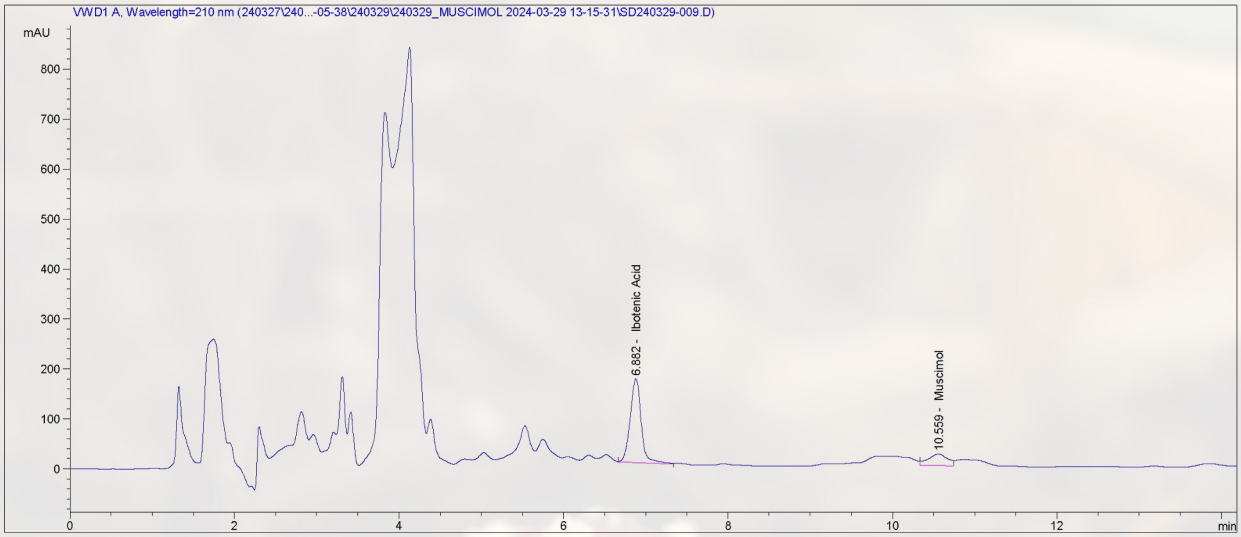

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AMU Study 2 Mushroom 1
SD240329-008 (92648)
___AMU
PharmLabs LLC

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    Dilution:                     :      1.0000
    Use Multiplier & Dilution Factor with ISTDs

    Signal 1: VWD1 A, Wavelength=210 nm

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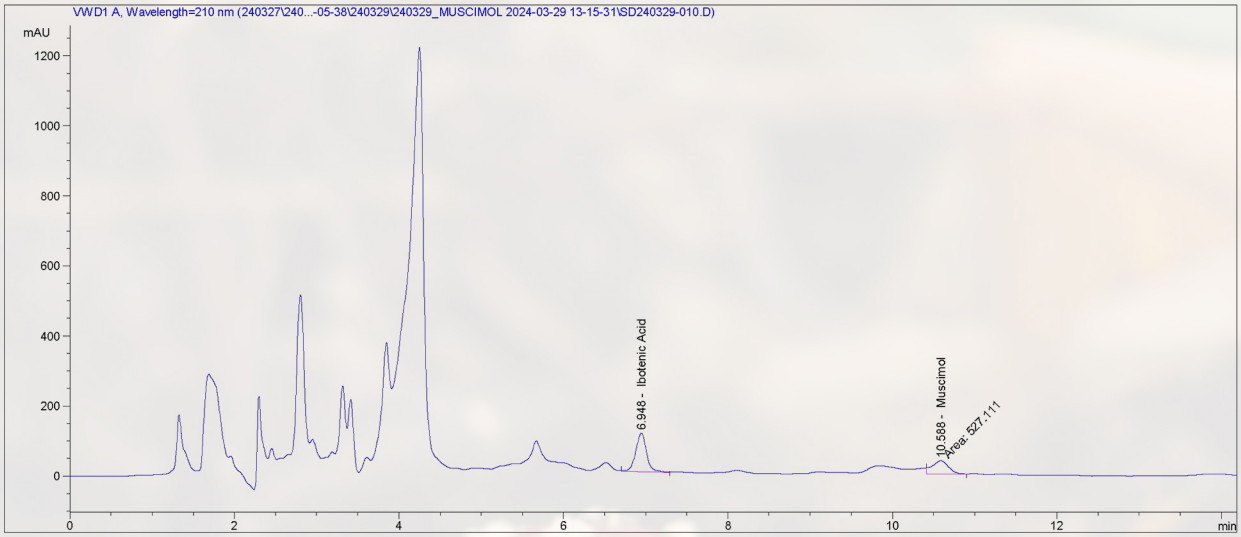

AMU Study 2 Mushroom 2
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AMU Study 2 Mushroom 2
SD240329-009 (92655)
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PharmLabs LLC

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Last changed : 3/29/2024 1:15:29 PM by BVS
Analysis Method : C:\CHEM32\1\DATA\240327\240327_MUSCIMOL 2024-03-27 14-05-38\240329\240329_MUSCIMOL 2024-03-29 13-15-31\7 MUSCIMOL.M
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(modified after loading) (Results are from a previously saved Batch)

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Additional Info	Peak(s) manually integrated



External Standard Report

Sorted By : Retention Time
Calib. Data Modified : 4/1/2024 11:36:42 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: VWD1 A, Wavelength=210 nm

RetTime [min]	Sig	Type	Area mAU *s	Amt/Area	Amount mg/L (ppm)	Grp	Name
6.948	1	VV	992.61670	4.99297e-1	495.61090		Ibotenic Acid
10.588	1	FM	527.11139	1.11358e-1	58.69812		Muscimol
Totals :					554.30902		

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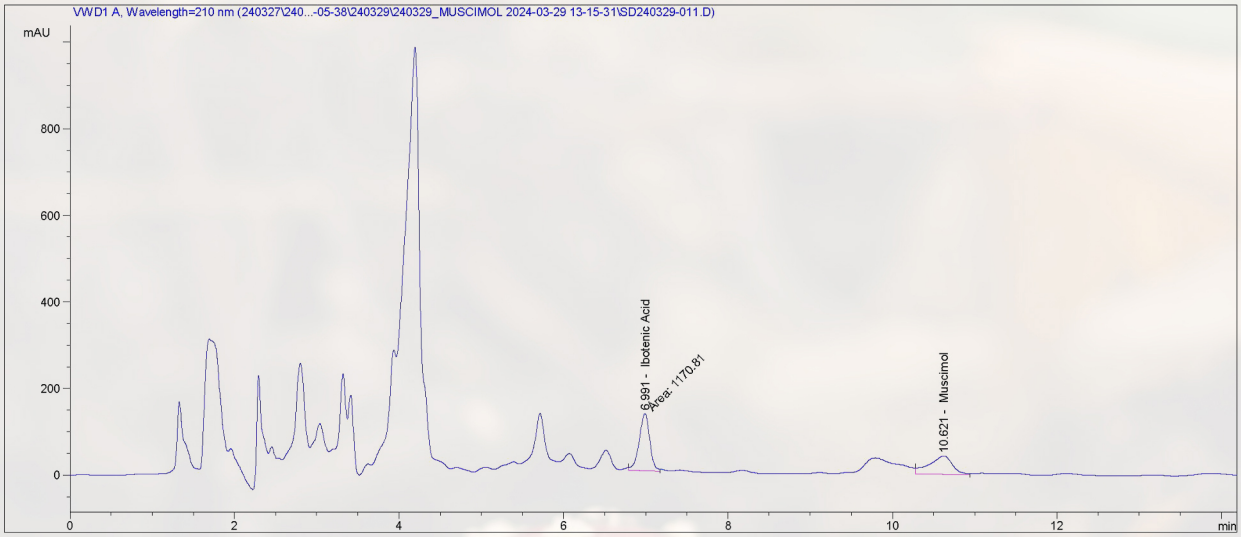

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AMU Study 2 Mushroom 3
SD240329-010 (92656)
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PharmLabs LLC

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    Dilution:                     :      1.0000
    Use Multiplier & Dilution Factor with ISTDs

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      6.991  1 MF     1170.81055 4.99297e-1  584.58262    Ibotenic Acid
     10.621  1 VV      845.45398 1.11358e-1   94.14815    Muscimol

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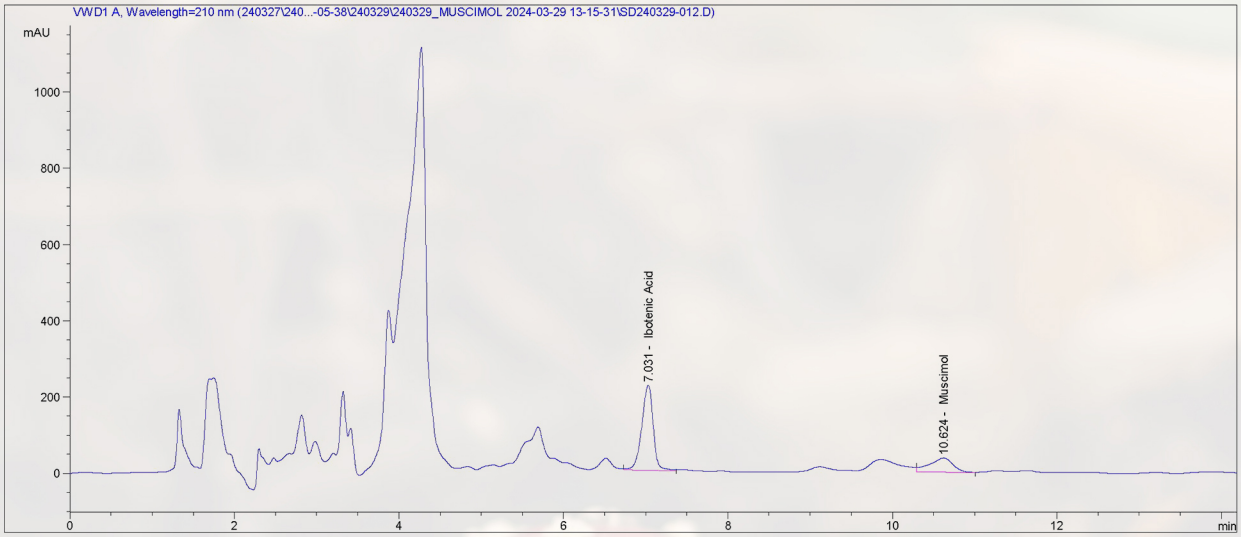

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PharmLabs LLC

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    Multiplier:                   :      1.0000
    Dilution:                     :      1.0000
    Use Multiplier & Dilution Factor with ISTDs

    Signal 1: VWD1 A, Wavelength=210 nm

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     [min]           mAU   *s              mg/L (ppm)
    -------|--|------|----------|----------|----------|--|---------------
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     10.624  1 VB      735.01691 1.11358e-1   81.85008    Muscimol

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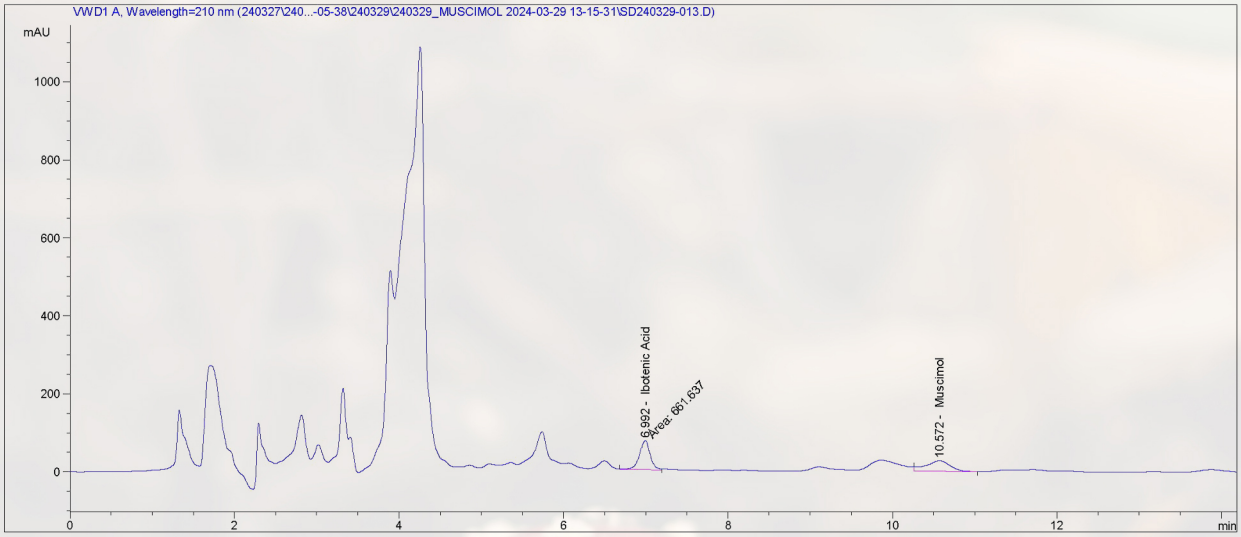

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AMU Study 2 Mushroom 5
SD240329-012 (92658)
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PharmLabs LLC

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    Last changed    : 4/1/2024 11:36:42 AM by BVS
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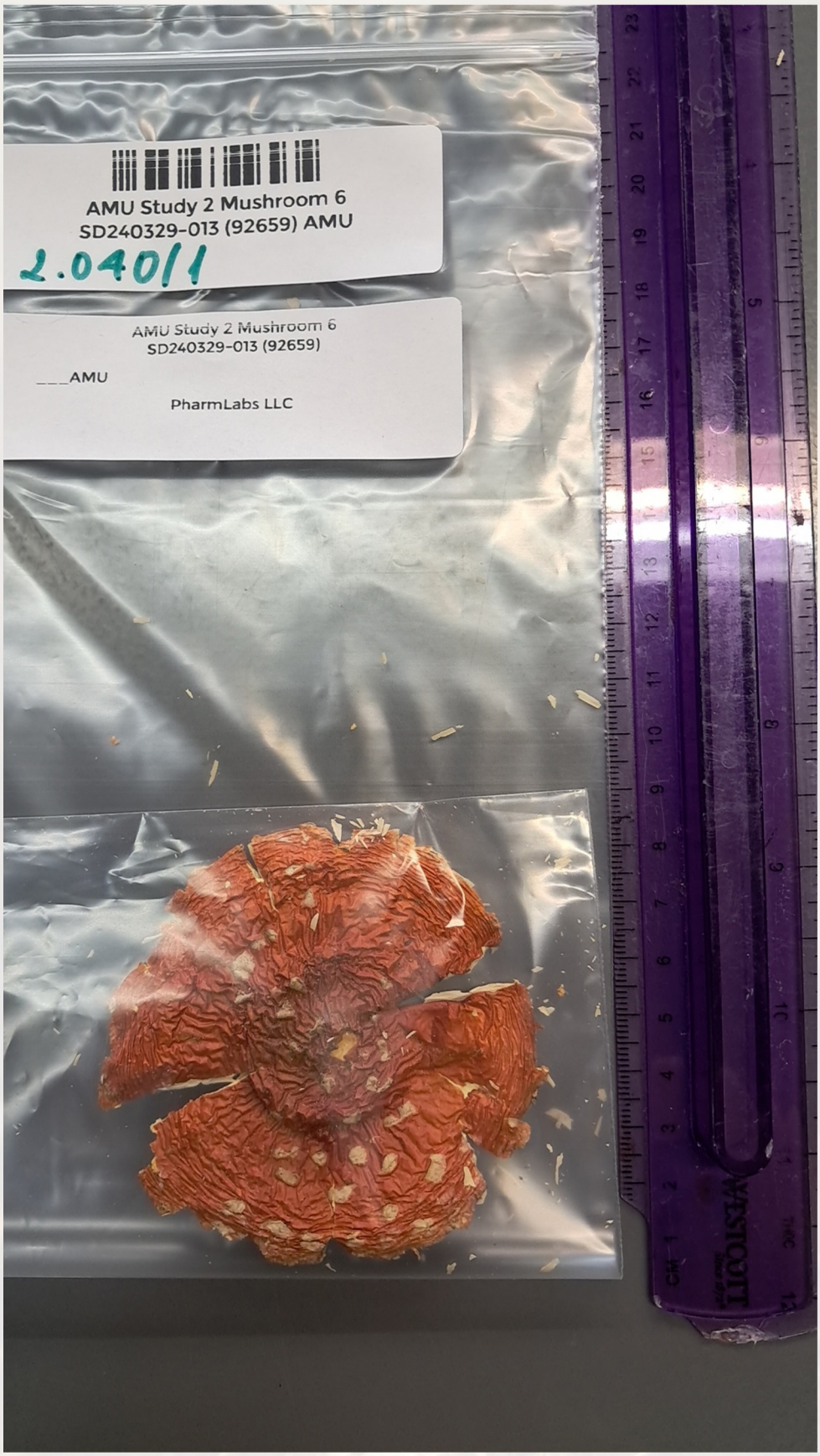
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    Use Multiplier & Dilution Factor with ISTDs

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     [min]           mAU   *s              mg/L (ppm)
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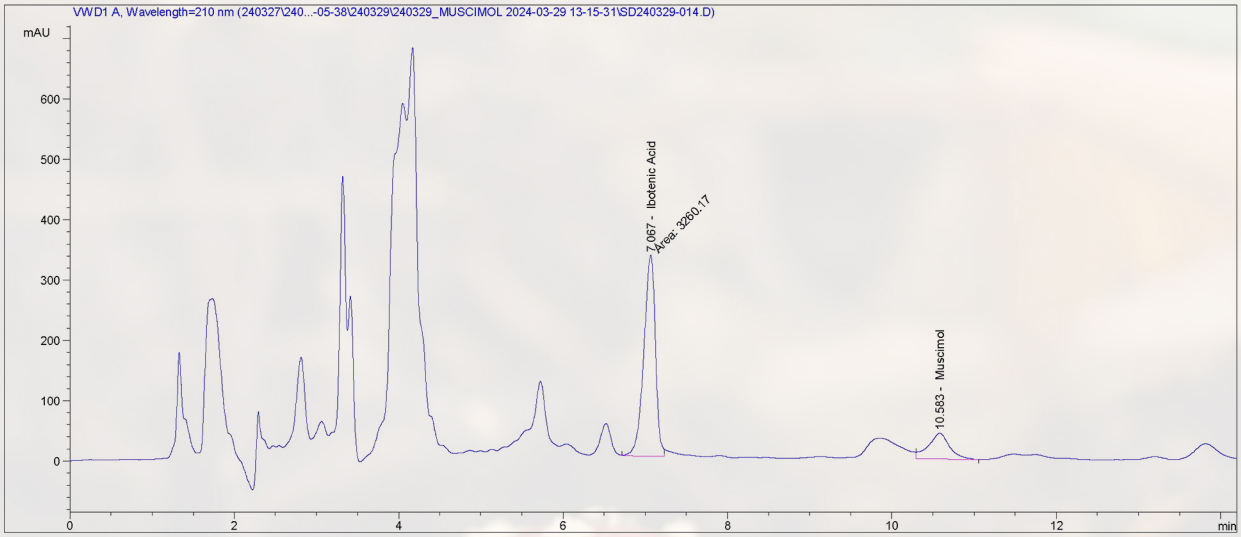

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AMU Study 2 Mushroom 6
SD240329-013 (92659)
___AMU
PharmLabs LLC

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Last changed : 3/29/2024 1:15:29 PM by BVS
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Sample-related custom fields:

Name	Value
Additional Info	Peak(s) manually integrated



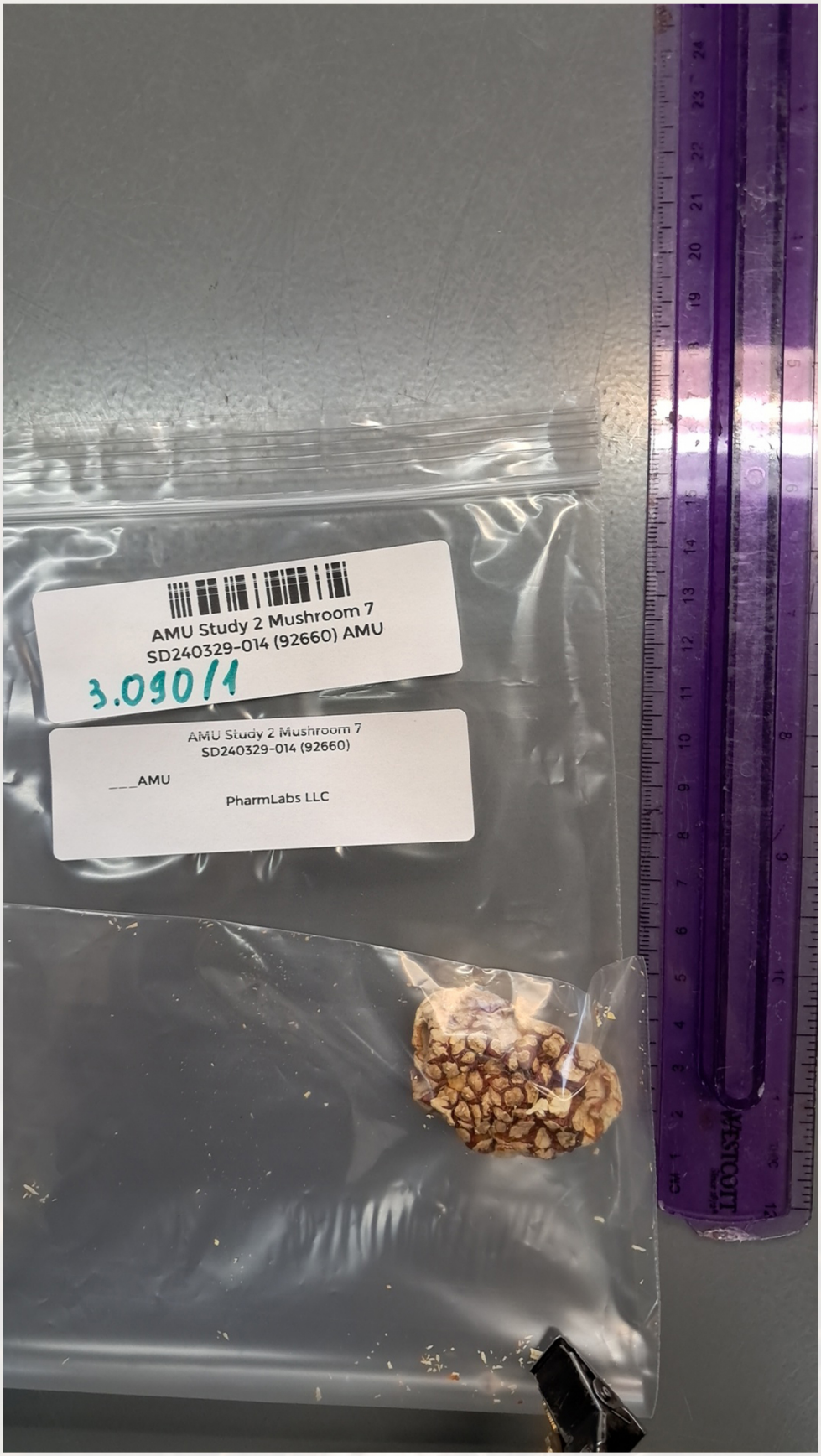
External Standard Report

Sorted By : Retention Time
Calib. Data Modified : 4/1/2024 11:36:42 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: VWD1 A, Wavelength=210 nm

RetTime [min]	Sig	Type	Area mAU	Amt/Area *s	Amount mg/L (ppm)	Grp	Name
7.067	1	MF	3260.17334	4.99297e-1	1627.79596		Ibotenic Acid
10.583	1	VB	764.46655	1.11358e-1	85.12954		Muscimol
Totals :					1712.92550		

*** End of Report ***

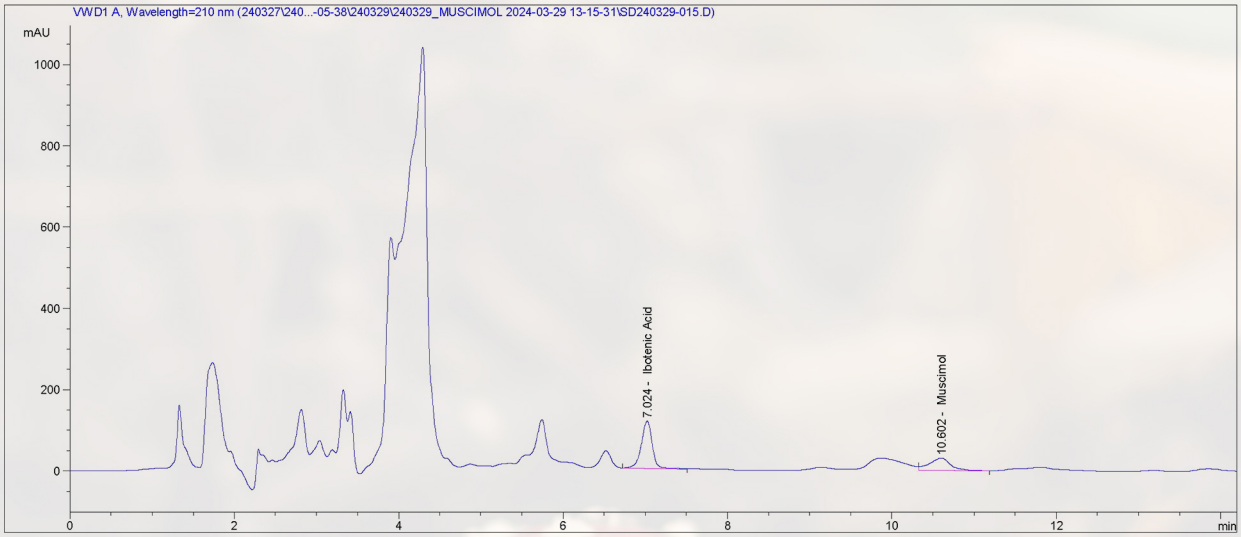

AMU Study 2 Mushroom 7
SD240329-014 (92660) AMU
3.090 11
AMU Study 2 Mushroom 7
SD240329-014 (92660)
___AMU
PharmLabs LLC

Data File C:\CHEM32\... 14-05-38\240329\240329_MUSCIMOL 2024-03-29 13-15-31\SD240329-015.D
Sample Name: SD240329-015

```
    ======================================================================
    Acq. Operator   : BVS                          Seq. Line :  11
    Acq. Instrument : Instrument 1                  Location : Vial 10
    Injection Date  : 3/29/2024 3:56:36 PM               Inj :   1
                                                  Inj Volume : 3.000 µl
    Acq. Method     : C:\CHEM32\1\DATA\240327\240327_MUSCIMOL 2024-03-27 14-05-38\240329\240329_MUSCIMOL 2024-03-29 13-15-31\7 MUSCIMOL.M
    Last changed    : 3/29/2024 1:15:29 PM by BVS
    Analysis Method : C:\CHEM32\1\DATA\240327\240327_MUSCIMOL 2024-03-27 14-05-38\240329\240329_MUSCIMOL 2024-03-29 13-15-31\7 MUSCIMOL.M
                      (Sequence Method)
    Last changed    : 4/1/2024 11:36:42 AM by BVS
                      (modified after loading)  (Results are from a previously saved Batch)

    Sample-related custom fields:

    Name                          |Value
    ------------------------------|---------------------------------------
    Additional Info : Peak(s) manually integrated
    ======================================================================
```




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    ======================================================================
                        External Standard Report
    ======================================================================

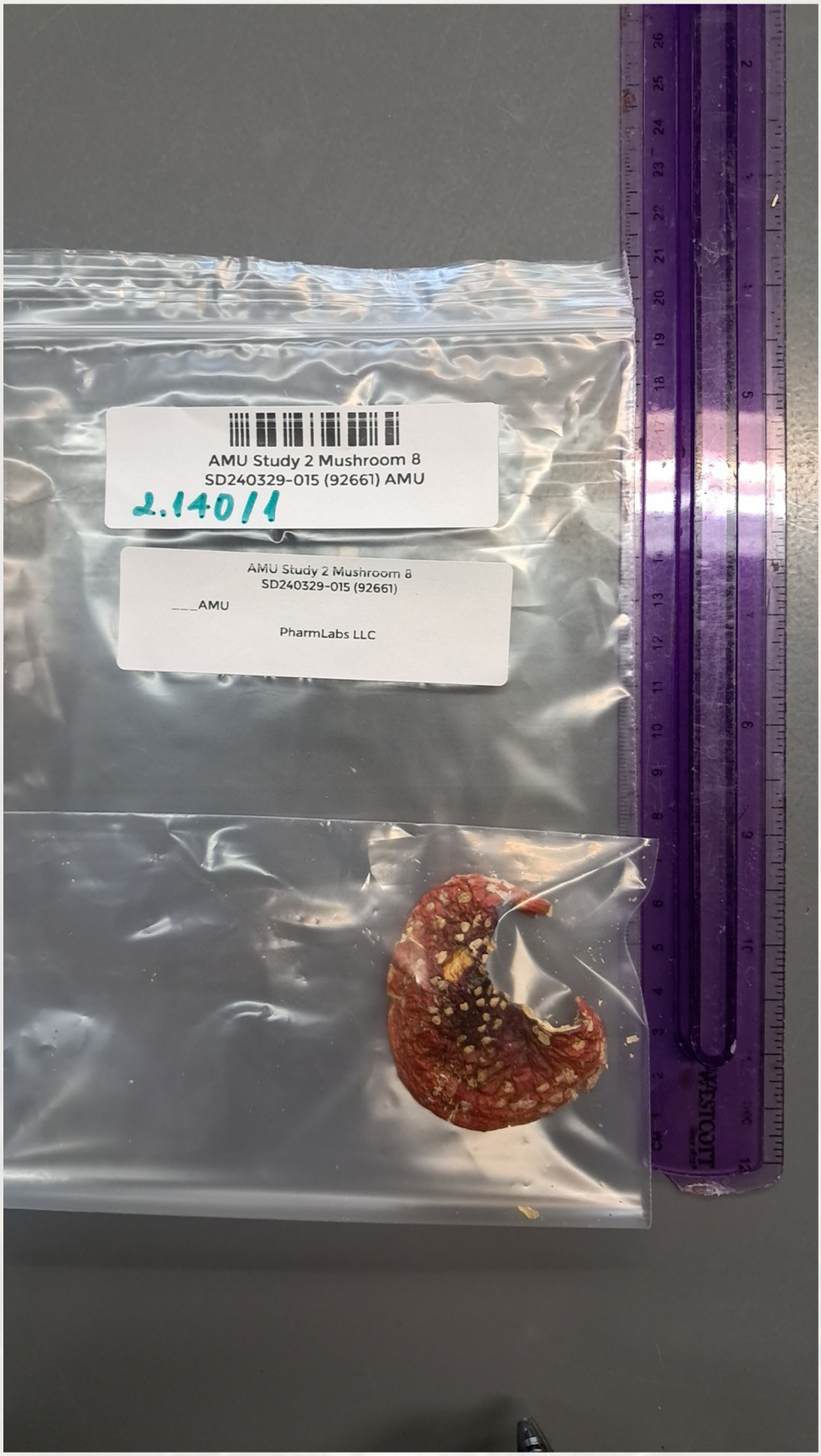
    Sorted By             :      Retention Time
    Calib. Data Modified  :      4/1/2024 11:36:42 AM
    Multiplier:                   :      1.0000
    Dilution:                     :      1.0000
    Use Multiplier & Dilution Factor with ISTDs

    Signal 1: VWD1 A, Wavelength=210 nm

    RetTime Sig Type     Area     Amt/Area    Amount   Grp   Name
     [min]           mAU   *s              mg/L (ppm)
    -------|--|------|----------|----------|----------|--|---------------
      7.024  1 VV     1078.90735 4.99297e-1  538.69560    Ibotenic Acid
     10.602  1 VB      543.18860 1.11358e-1   60.48845    Muscimol

    Totals :                                 599.18404


    ======================================================================
                           *** End of Report ***
```

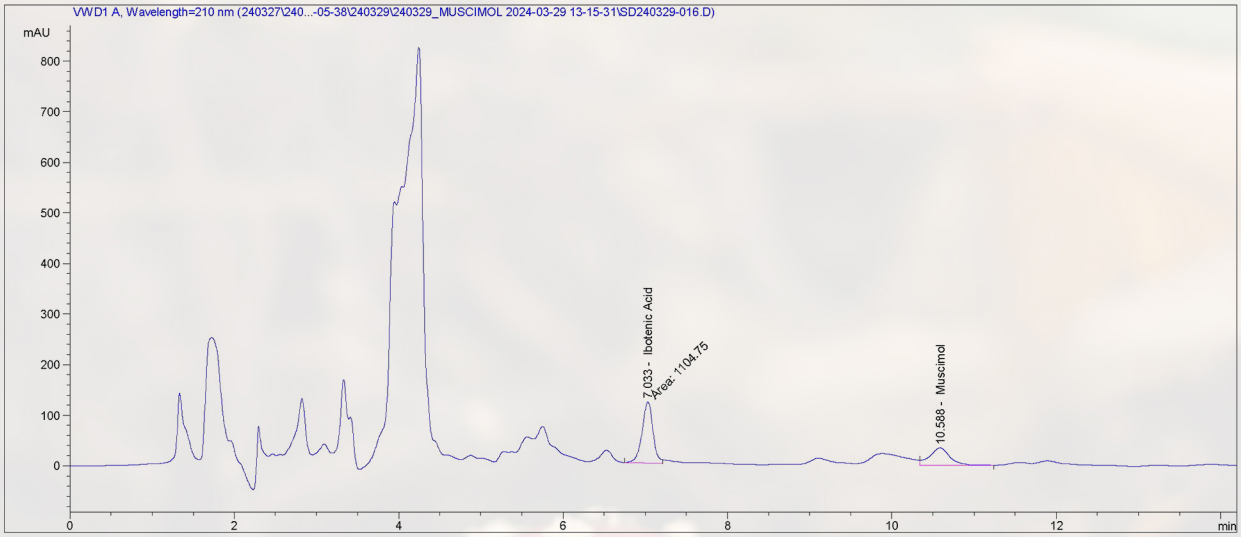

AMU Study 2 Mushroom 8
SD240329-015 (92661) AMU
2.14011
AMU Study 2 Mushroom 8
SD240329-015 (92661)
___AMU
PharmLabs LLC

Data File C:\CHEM32\... 14-05-38\240329\240329_MUSCIMOL 2024-03-29 13-15-31\SD240329-016.D
Sample Name: SD240329-016

```
    ==================================================================
    Acq. Operator   : BVS                          Seq. Line :  12
    Acq. Instrument : Instrument 1                  Location : Vial 11
    Injection Date  : 3/29/2024 4:11:05 PM               Inj :   1
                                                  Inj Volume : 3.000 µl
    Acq. Method     : C:\CHEM32\1\DATA\240327\240327_MUSCIMOL 2024-03-27 14-05-38\240329\240329_MUSCIMOL 2024-03-29 13-15-31\7 MUSCIMOL.M
    Last changed    : 3/29/2024 1:15:29 PM by BVS
    Analysis Method : C:\CHEM32\1\DATA\240327\240327_MUSCIMOL 2024-03-27 14-05-38\240329\240329_MUSCIMOL 2024-03-29 13-15-31\7 MUSCIMOL.M
                      (Sequence Method)
    Last changed    : 4/1/2024 11:36:42 AM by BVS
                      (modified after loading)  (Results are from a previously saved Batch)

    Sample-related custom fields:

    Name                          |Value
    ------------------------------|---------------------------------------
    Additional Info : Peak(s) manually integrated
    ==================================================================
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    ==================================================================
                         External Standard Report
    ==================================================================

    Sorted By             :      Retention Time
    Calib. Data Modified  :      4/1/2024 11:36:42 AM
    Multiplier:                   :      1.0000
    Dilution:                     :      1.0000
    Use Multiplier & Dilution Factor with ISTDs

    Signal 1: VWD1 A, Wavelength=210 nm

    RetTime Sig Type     Area     Amt/Area    Amount   Grp   Name
     [min]           mAU   *s              mg/L (ppm)
    -------|--|------|----------|----------|----------|--|---------------
      7.033  1 MF     1104.75476 4.99297e-1  551.60114    Ibotenic Acid
     10.588  1 VB      578.51923 1.11358e-1   64.42280    Muscimol

    Totals :                                 616.02394


    ==================================================================
                            *** End of Report ***
```


AMU Study 2 Mushroom 9
SD240329-016 (92662) AMU
AMU Study 2 Mushroom 9
SD240329-016 (92662)
___AMU
PharmLabs LLC

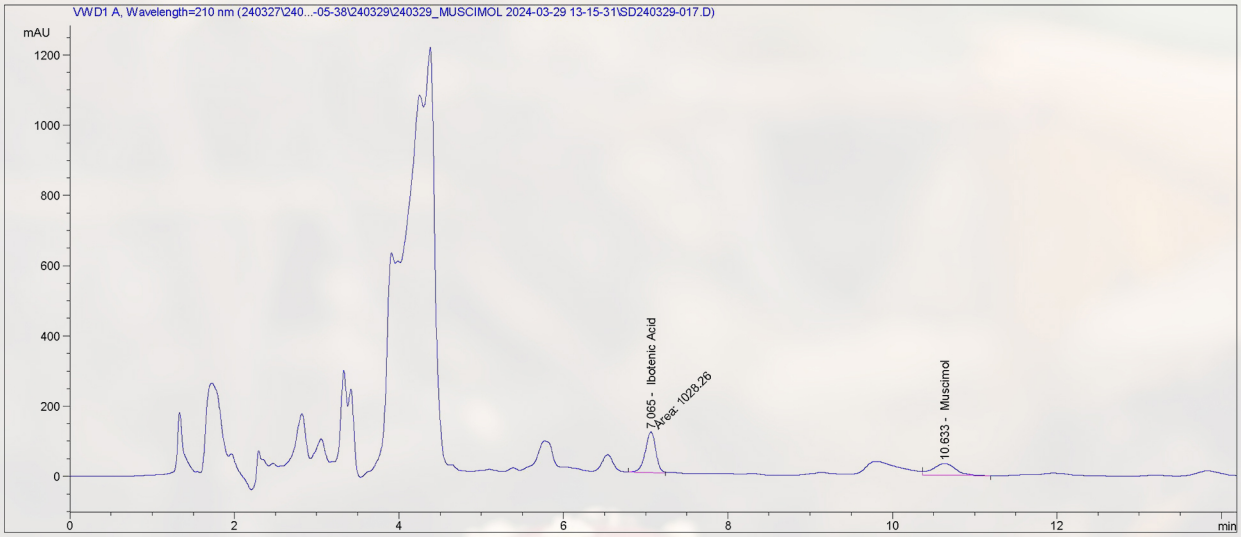
Data File C:\CHEM32\... 14-05-38\240329\240329_MUSCIMOL 2024-03-29 13-15-31\SD240329-017.D
Sample Name: SD240329-017

Acq. Operator	: BVS	Seq. Line	: 13
Acq. Instrument	: Instrument 1	Location	: Vial 12
Injection Date	: 3/29/2024 4:25:33 PM	Inj	: 1
		Inj Volume	: 3.000 µl

Acq. Method : C:\CHEM32\1\DATA\240327\240327_MUSCIMOL 2024-03-27 14-05-38\240329\240329_MUSCIMOL 2024-03-29 13-15-31\7 MUSCIMOL.M
Last changed : 3/29/2024 1:15:29 PM by BVS
Analysis Method : C:\CHEM32\1\DATA\240327\240327_MUSCIMOL 2024-03-27 14-05-38\240329\240329_MUSCIMOL 2024-03-29 13-15-31\7 MUSCIMOL.M
(Sequence Method)
Last changed : 4/1/2024 11:36:42 AM by BVS
(modified after loading) (Results are from a previously saved Batch)

Sample-related custom fields:

Name	Value
Additional Info	Peak(s) manually integrated



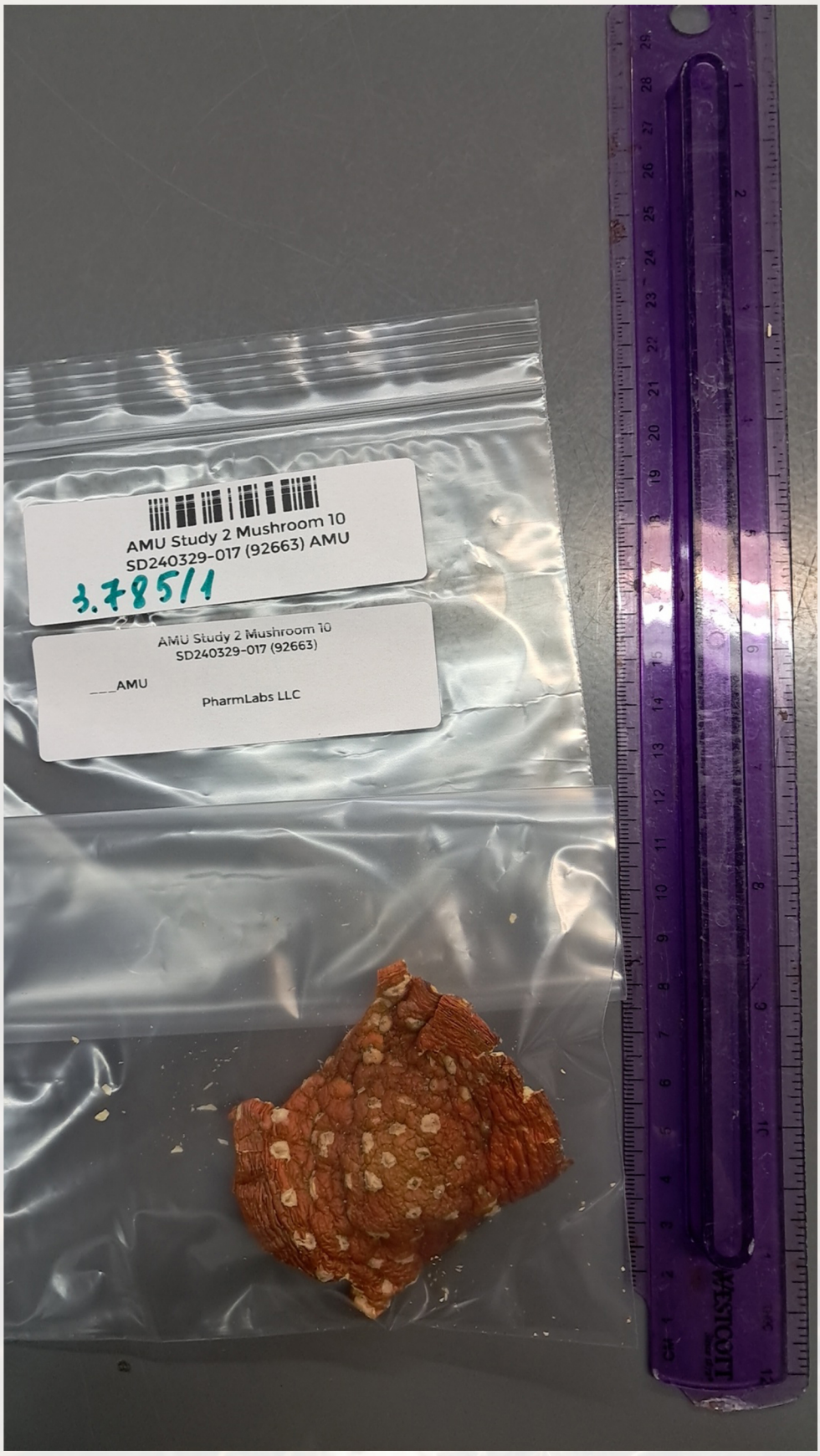
External Standard Report

Sorted By : Retention Time
Calib. Data Modified : 4/1/2024 11:36:42 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: VWD1 A, Wavelength=210 nm

RetTime [min]	Sig	Type	Area mAU	Amt/Area *s	Amount mg/L (ppm)	Grp	Name
7.065	1	MF	1028.25745	4.99297e-1	513.40623		Ibotenic Acid
10.633	1	VB	632.02374	1.11358e-1	70.38096		Muscimol
Totals :					583.78719		

*** End of Report ***

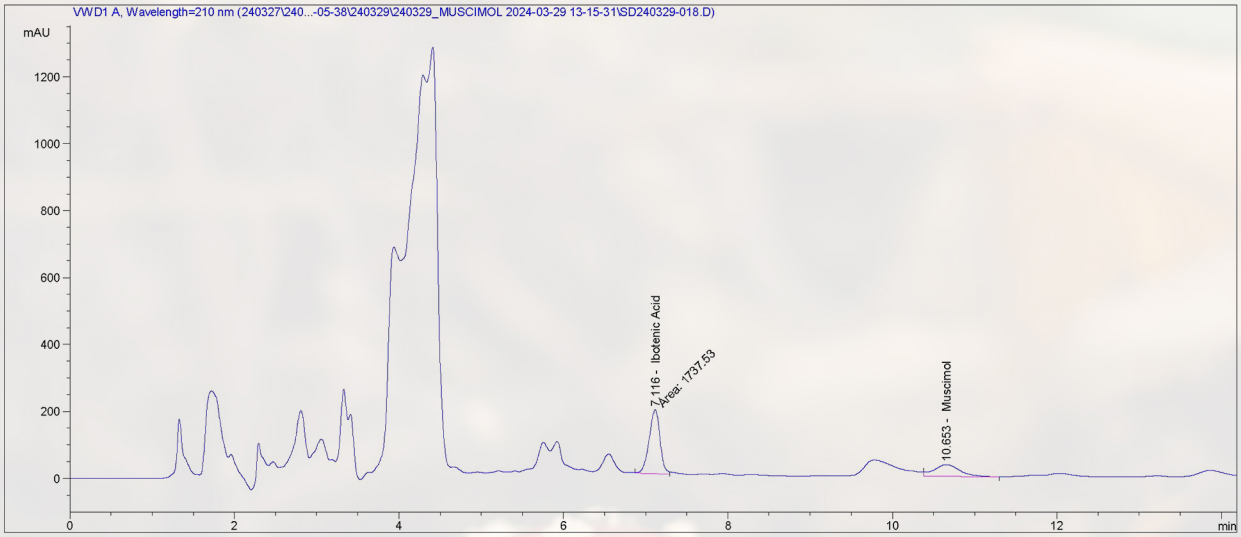

AMU Study 2 Mushroom 10
SD240329-017 (92663) AMU
3.7851
AMU Study 2 Mushroom 10
SD240329-017 (92663)
___AMU
PharmLabs LLC

Data File C:\CHEM32\... 14-05-38\240329\240329_MUSCIMOL 2024-03-29 13-15-31\SD240329-018.D
Sample Name: SD240329-018

```
    ==================================================================
    Acq. Operator   : BVS                          Seq. Line :  15
    Acq. Instrument : Instrument 1                  Location : Vial 13
    Injection Date  : 3/29/2024 4:54:30 PM               Inj :   1
                                                   Inj Volume : 3.000 µl
    Acq. Method     : C:\CHEM32\1\DATA\240327\240327_MUSCIMOL 2024-03-27 14-05-38\240329\240329_MUSCIMOL 2024-03-29 13-15-31\7 MUSCIMOL.M
    Last changed    : 3/29/2024 1:15:29 PM by BVS
    Analysis Method : C:\CHEM32\1\DATA\240327\240327_MUSCIMOL 2024-03-27 14-05-38\240329\240329_MUSCIMOL 2024-03-29 13-15-31\7 MUSCIMOL.M
                      (Sequence Method)
    Last changed    : 4/1/2024 11:36:42 AM by BVS
                      (modified after loading)  (Results are from a previously saved Batch)

    Sample-related custom fields:

    Name                          |Value
    ------------------------------|---------------------------------------
    Additional Info : Peak(s) manually integrated
    ==================================================================
```




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    ==================================================================
                         External Standard Report
    ==================================================================

    Sorted By             :      Retention Time
    Calib. Data Modified  :      4/1/2024 11:36:42 AM
    Multiplier:                   :      1.0000
    Dilution:                     :      1.0000
    Use Multiplier & Dilution Factor with ISTDs

    Signal 1: VWD1 A, Wavelength=210 nm

    RetTime Sig Type     Area     Amt/Area    Amount   Grp   Name
     [min]           mAU   *s              mg/L (ppm)
    -------|--|------|----------|----------|----------|--|---------------
      7.116  1 MF     1737.53198 4.99297e-1  867.54514    Ibotenic Acid
     10.653  1 VB      764.34680 1.11358e-1   85.11621    Muscimol

    Totals :                                952.66134


    ==================================================================
                            *** End of Report ***
```

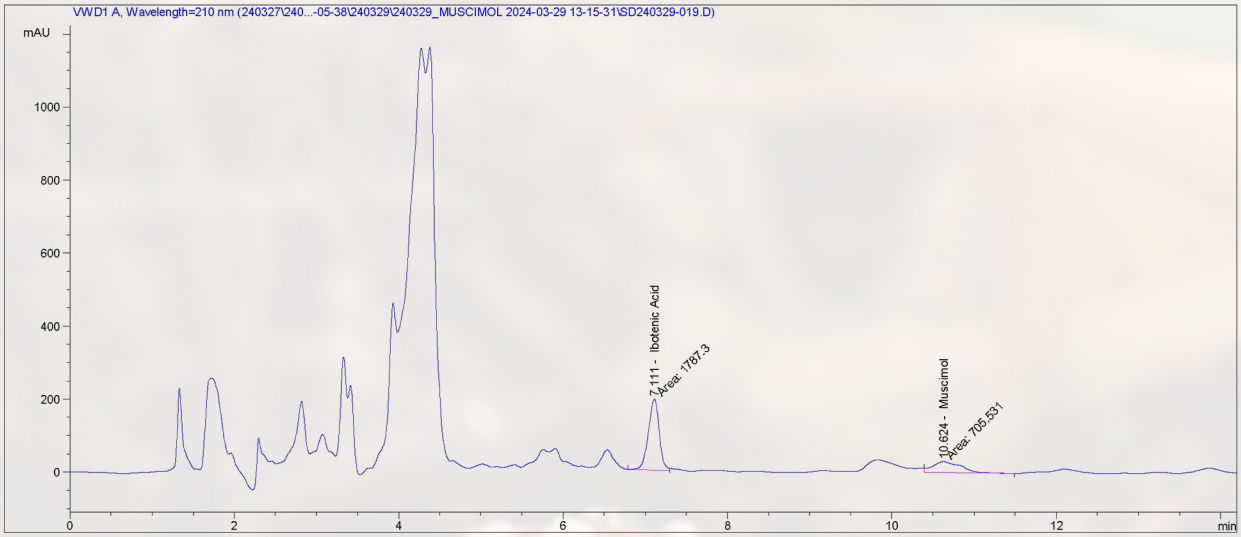

tudy 2 Mushroom 16
29-023 (92669) AMU
dy 2 Mushroom 16
329-023 (92669)
armLabs LLC

Data File C:\CHEM32\... 14-05-38\240329\240329_MUSCIMOL 2024-03-29 13-15-31\SD240329-019.D
Sample Name: SD240329-019

```
    ==================================================================
    Acq. Operator   : BVS                          Seq. Line :  16
    Acq. Instrument : Instrument 1                  Location : Vial 14
    Injection Date  : 3/29/2024 5:08:59 PM               Inj :   1
                                                   Inj Volume : 3.000 µl
    Acq. Method     : C:\CHEM32\1\DATA\240327\240327_MUSCIMOL 2024-03-27 14-05-38\240329\240329_MUSCIMOL 2024-03-29 13-15-31\7 MUSCIMOL.M
    Last changed    : 3/29/2024 1:15:29 PM by BVS
    Analysis Method : C:\CHEM32\1\DATA\240327\240327_MUSCIMOL 2024-03-27 14-05-38\240329\240329_MUSCIMOL 2024-03-29 13-15-31\7 MUSCIMOL.M
                      (Sequence Method)
    Last changed    : 4/1/2024 11:36:42 AM by BVS
                      (modified after loading)  (Results are from a previously saved Batch)

    Sample-related custom fields:

    Name                          |Value
    ------------------------------|---------------------------------------
    Additional Info : Peak(s) manually integrated
    ==================================================================
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                        External Standard Report
    ==================================================================

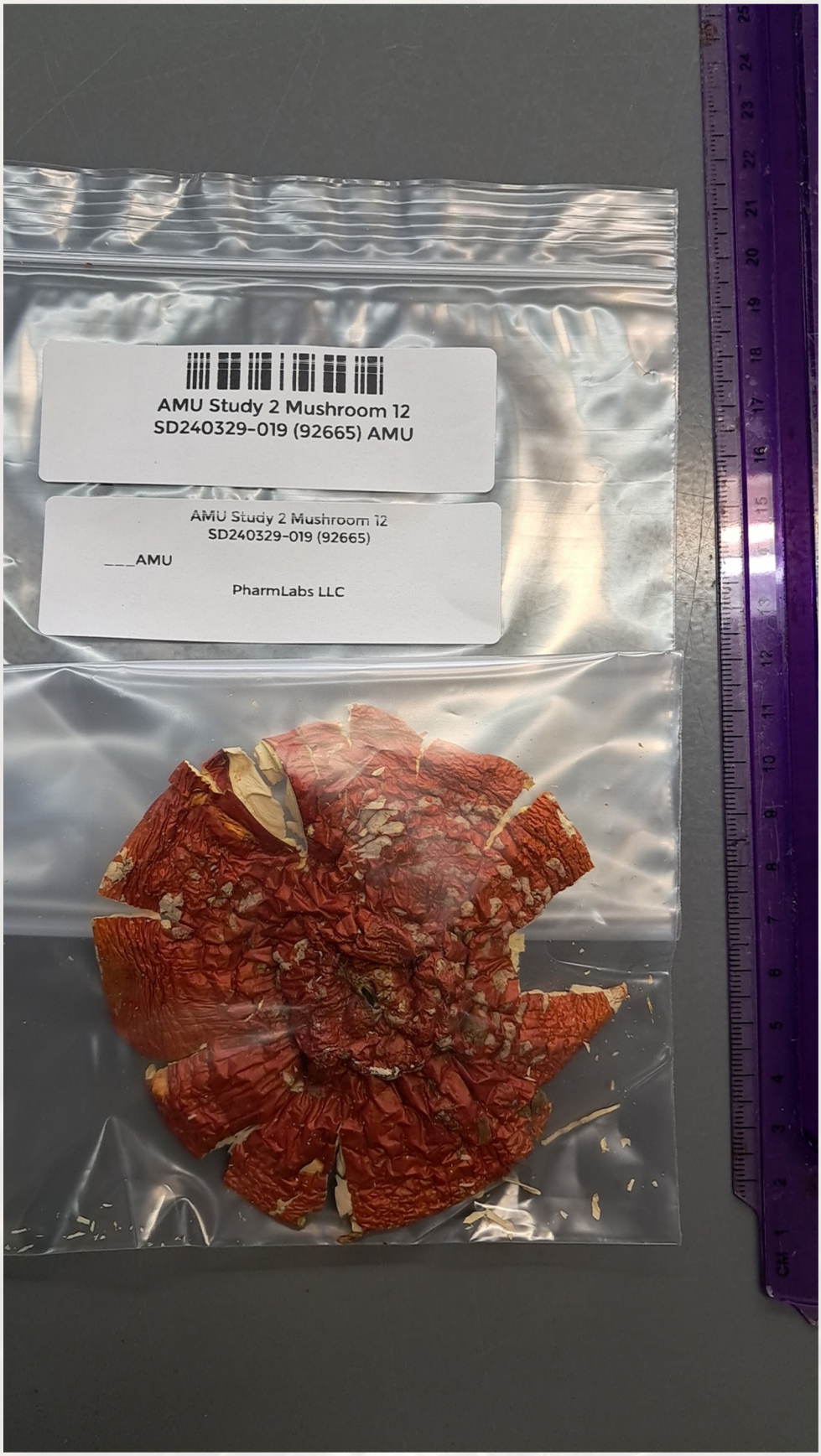
    Sorted By             :      Retention Time
    Calib. Data Modified  :      4/1/2024 11:36:42 AM
    Multiplier:                   :      1.0000
    Dilution:                     :      1.0000
    Use Multiplier & Dilution Factor with ISTDs

    Signal 1: VWD1 A, Wavelength=210 nm

    RetTime Sig Type     Area     Amt/Area    Amount   Grp   Name
     [min]           mAU   *s              mg/L (ppm)
    -------|--|------|----------|----------|----------|--|---------------
      7.111  1 MF     1787.30383 4.99297e-1  892.39609    Ibotenic Acid
     10.624  1 FM      705.53149 1.11358e-1   78.56664    Muscimol

    Totals :                                970.96274


    ==================================================================
                           *** End of Report ***
```

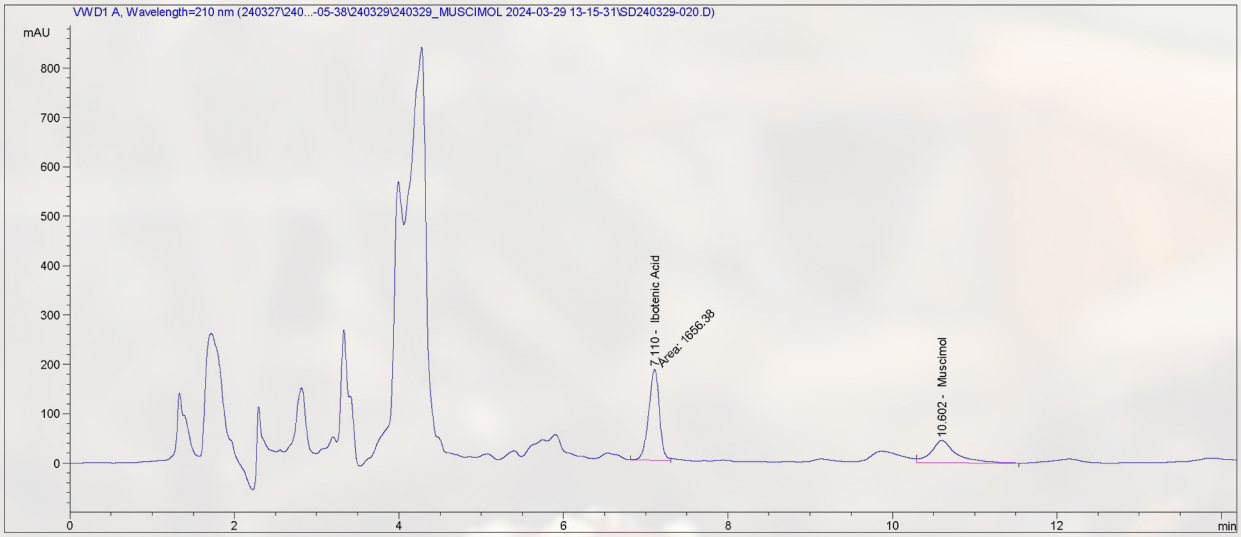

AMU Study 2 Mushroom 12
SD240329-019 (92665) AMU
AMU Study 2 Mushroom 12
SD240329-019 (92665)
___AMU
PharmLabs LLC

Data File C:\CHEM32\... 14-05-38\240329\240329_MUSCIMOL 2024-03-29 13-15-31\SD240329-020.D
Sample Name: SD240329-020

```
    ================================================================
    Acq. Operator   : BVS                          Seq. Line :  17
    Acq. Instrument : Instrument 1                  Location : Vial 15
    Injection Date  : 3/29/2024 5:23:27 PM               Inj :   1
                                                   Inj Volume : 3.000 µl
    Acq. Method     : C:\CHEM32\1\DATA\240327\240327_MUSCIMOL 2024-03-27 14-05-38\240329\240329_MUSCIMOL 2024-03-29 13-15-31\7 MUSCIMOL.M
    Last changed    : 3/29/2024 1:15:29 PM by BVS
    Analysis Method : C:\CHEM32\1\DATA\240327\240327_MUSCIMOL 2024-03-27 14-05-38\240329\240329_MUSCIMOL 2024-03-29 13-15-31\7 MUSCIMOL.M
                      (Sequence Method)
    Last changed    : 4/1/2024 11:36:42 AM by BVS
                      (modified after loading)  (Results are from a previously saved Batch)

    Sample-related custom fields:

    Name                          |Value
    ------------------------------|-------------------------------------
    Additional Info : Peak(s) manually integrated
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    ================================================================
                        External Standard Report
    ================================================================

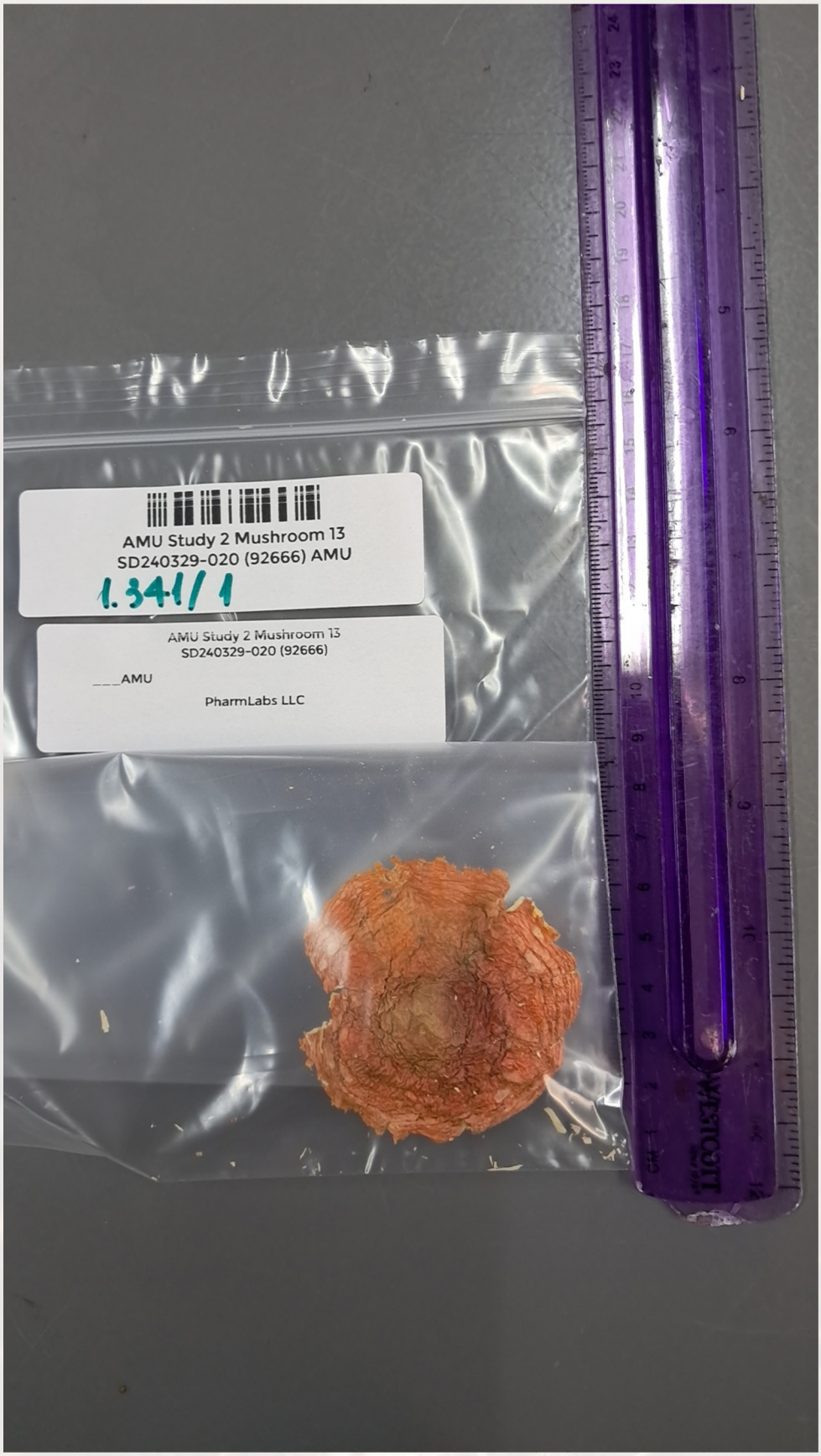
    Sorted By             :      Retention Time
    Calib. Data Modified  :      4/1/2024 11:36:42 AM
    Multiplier:                   :      1.0000
    Dilution:                     :      1.0000
    Use Multiplier & Dilution Factor with ISTDs

    Signal 1: VWD1 A, Wavelength=210 nm

    RetTime Sig Type     Area     Amt/Area    Amount   Grp   Name
     [min]           mAU   *s              mg/L (ppm)
    -------|--|------|----------|----------|----------|--|---------------
      7.110  1 MF     1656.37537 4.99297e-1  827.02385    Ibotenic Acid
     10.602  1 VB      966.20795 1.11358e-1  107.59508    Muscimol

    Totals :                                 934.61893


    ================================================================
                            *** End of Report ***
```

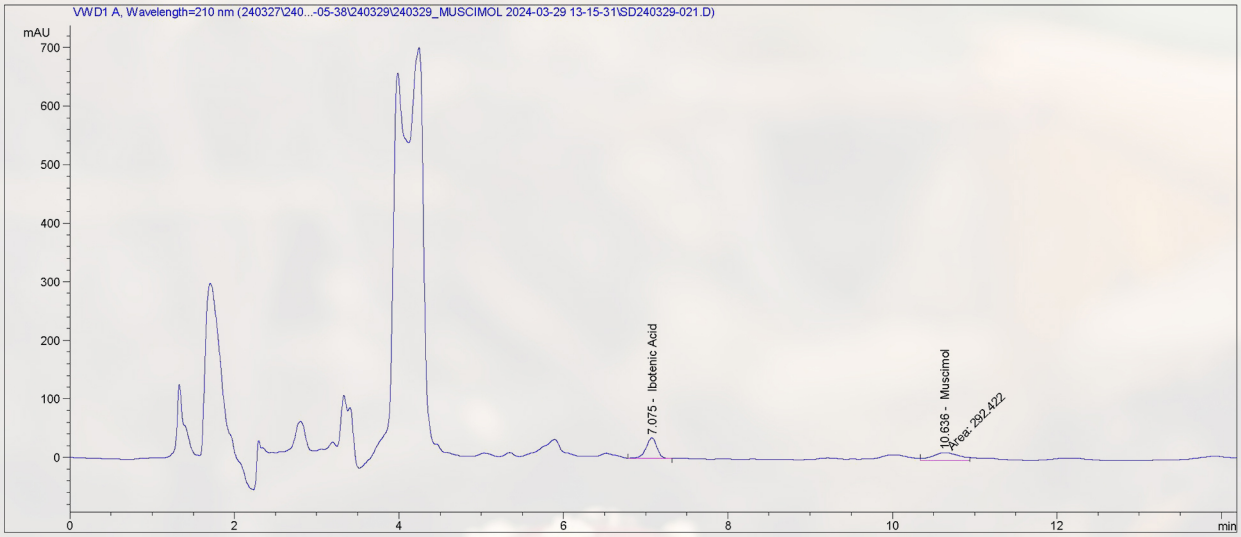

AMU Study 2 Mushroom 13
SD240329-020 (92666) AMU
1.341/1
AMU Study 2 Mushroom 13
SD240329-020 (92666)
___AMU
PharmLabs LLC

Data File C:\CHEM32\... 14-05-38\240329\240329_MUSCIMOL 2024-03-29 13-15-31\SD240329-021.D
Sample Name: SD240329-021

```
    ======================================================================
    Acq. Operator   : BVS                          Seq. Line :  18
    Acq. Instrument : Instrument 1                  Location : Vial 16
    Injection Date  : 3/29/2024 5:37:57 PM               Inj :  1
                                                  Inj Volume : 3.000 µl
    Acq. Method     : C:\CHEM32\1\DATA\240327\240327_MUSCIMOL 2024-03-27 14-05-38\240329\240329_MUSCIMOL 2024-03-29 13-15-31\7 MUSCIMOL.M
    Last changed    : 3/29/2024 1:15:29 PM by BVS
    Analysis Method : C:\CHEM32\1\DATA\240327\240327_MUSCIMOL 2024-03-27 14-05-38\240329\240329_MUSCIMOL 2024-03-29 13-15-31\7 MUSCIMOL.M
                      (Sequence Method)
    Last changed    : 4/1/2024 11:36:42 AM by BVS
                      (modified after loading)  (Results are from a previously saved Batch)

    Sample-related custom fields:

    Name                          |Value
    ------------------------------|---------------------------------------
    Additional Info : Peak(s) manually integrated
    ======================================================================
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    ======================================================================
                          External Standard Report
    ======================================================================

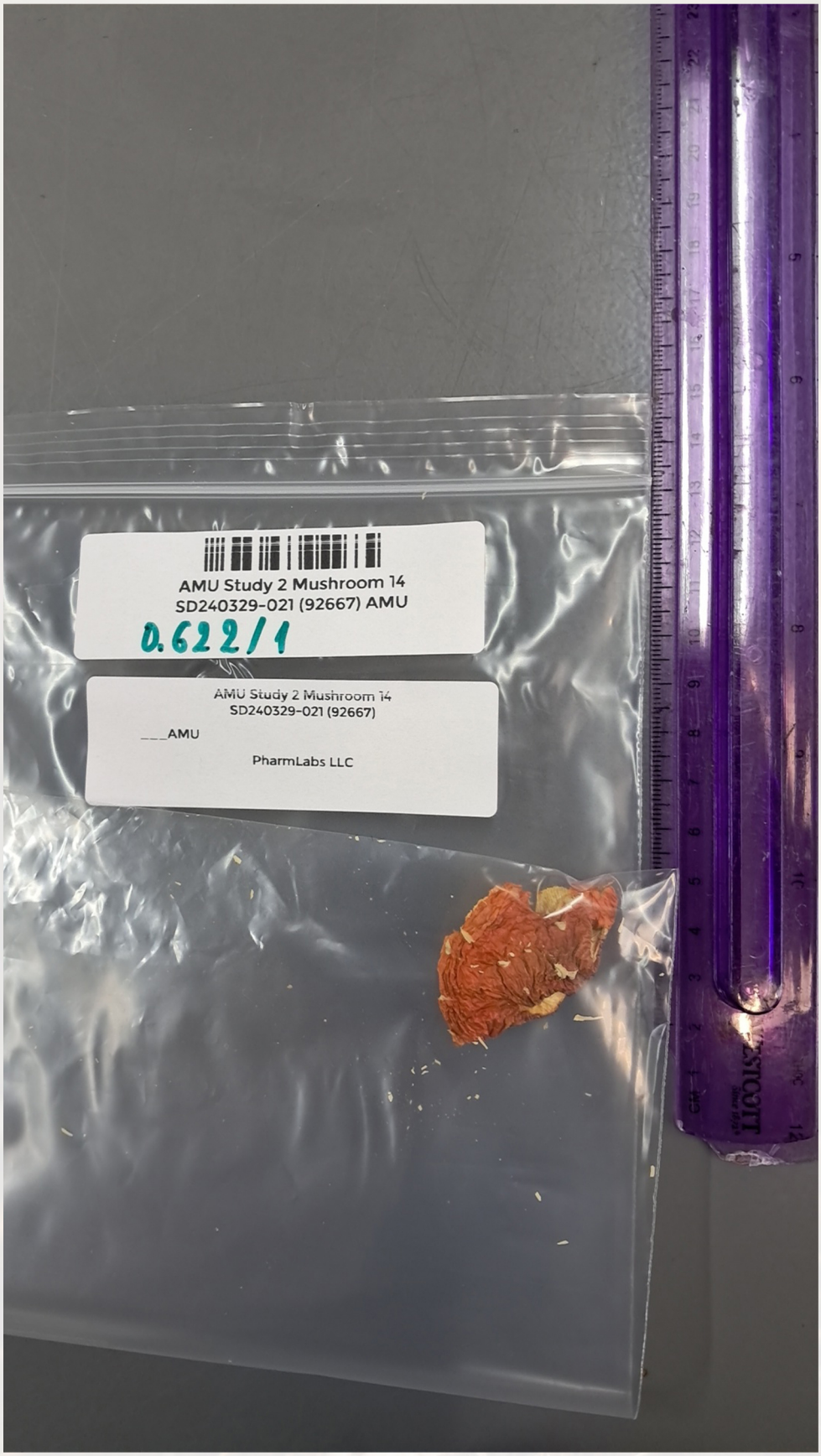
    Sorted By             :      Retention Time
    Calib. Data Modified  :      4/1/2024 11:36:42 AM
    Multiplier:                   :      1.0000
    Dilution:                     :      1.0000
    Use Multiplier & Dilution Factor with ISTDs

    Signal 1: VWD1 A, Wavelength=210 nm

    RetTime Sig Type     Area     Amt/Area    Amount   Grp   Name
     [min]           mAU   *s              mg/L (ppm)
    -------|--|------|----------|----------|----------|--|---------------
      7.075  1 BV      319.67560 4.99297e-1  159.61318    Ibotenic Acid
     10.636  1 MF      292.42227 1.11358e-1   32.56359    Muscimol

    Totals :                                192.17677


    ======================================================================
                             *** End of Report ***
```

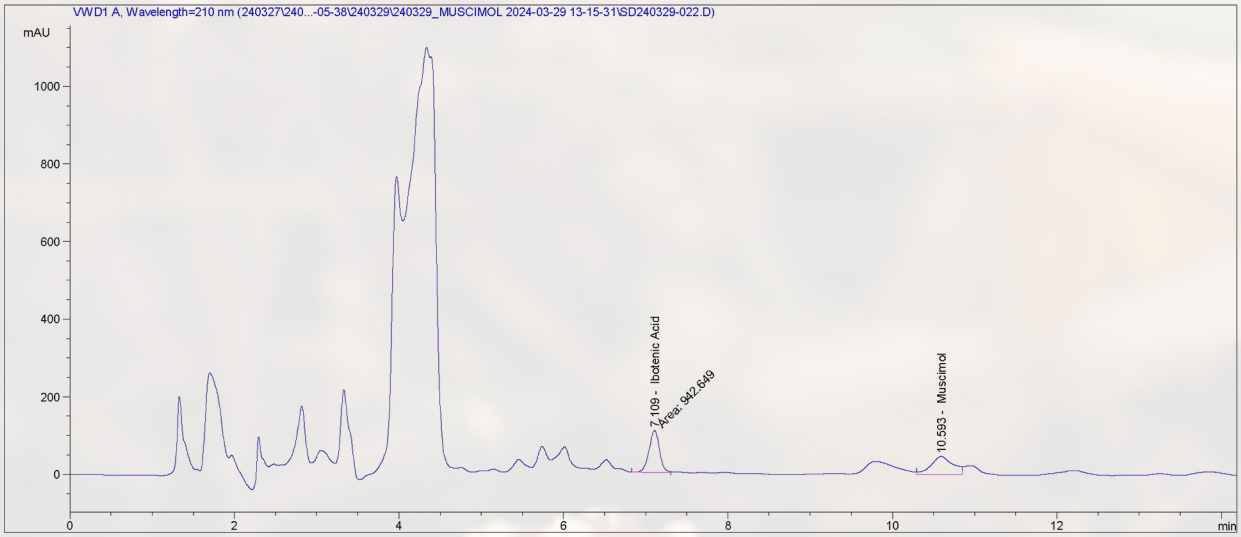

AMU Study 2 Mushroom 14
SD240329-021 (92667) AMU
0.622/1
AMU Study 2 Mushroom 14
SD240329-021 (92667)
___AMU
PharmLabs LLC

Data File C:\CHEM32\... 14-05-38\240329\240329_MUSCIMOL 2024-03-29 13-15-31\SD240329-022.D
Sample Name: SD240329-022

```
    ================================================================
    Acq. Operator   : BVS                          Seq. Line :  19
    Acq. Instrument : Instrument 1                  Location : Vial 17
    Injection Date  : 3/29/2024 5:52:25 PM               Inj :   1
                                                   Inj Volume : 3.000 µl
    Acq. Method     : C:\CHEM32\1\DATA\240327\240327_MUSCIMOL 2024-03-27 14-05-38\240329\240329_MUSCIMOL 2024-03-29 13-15-31\7 MUSCIMOL.M
    Last changed    : 3/29/2024 1:15:29 PM by BVS
    Analysis Method : C:\CHEM32\1\DATA\240327\240327_MUSCIMOL 2024-03-27 14-05-38\240329\240329_MUSCIMOL 2024-03-29 13-15-31\7 MUSCIMOL.M
                      (Sequence Method)
    Last changed    : 4/1/2024 11:36:42 AM by BVS
                      (modified after loading)  (Results are from a previously saved Batch)

    Sample-related custom fields:

    Name                          |Value
    ------------------------------|---------------------------------------
    Additional Info : Peak(s) manually integrated
    ================================================================
```




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    ================================================================
                        External Standard Report
    ================================================================

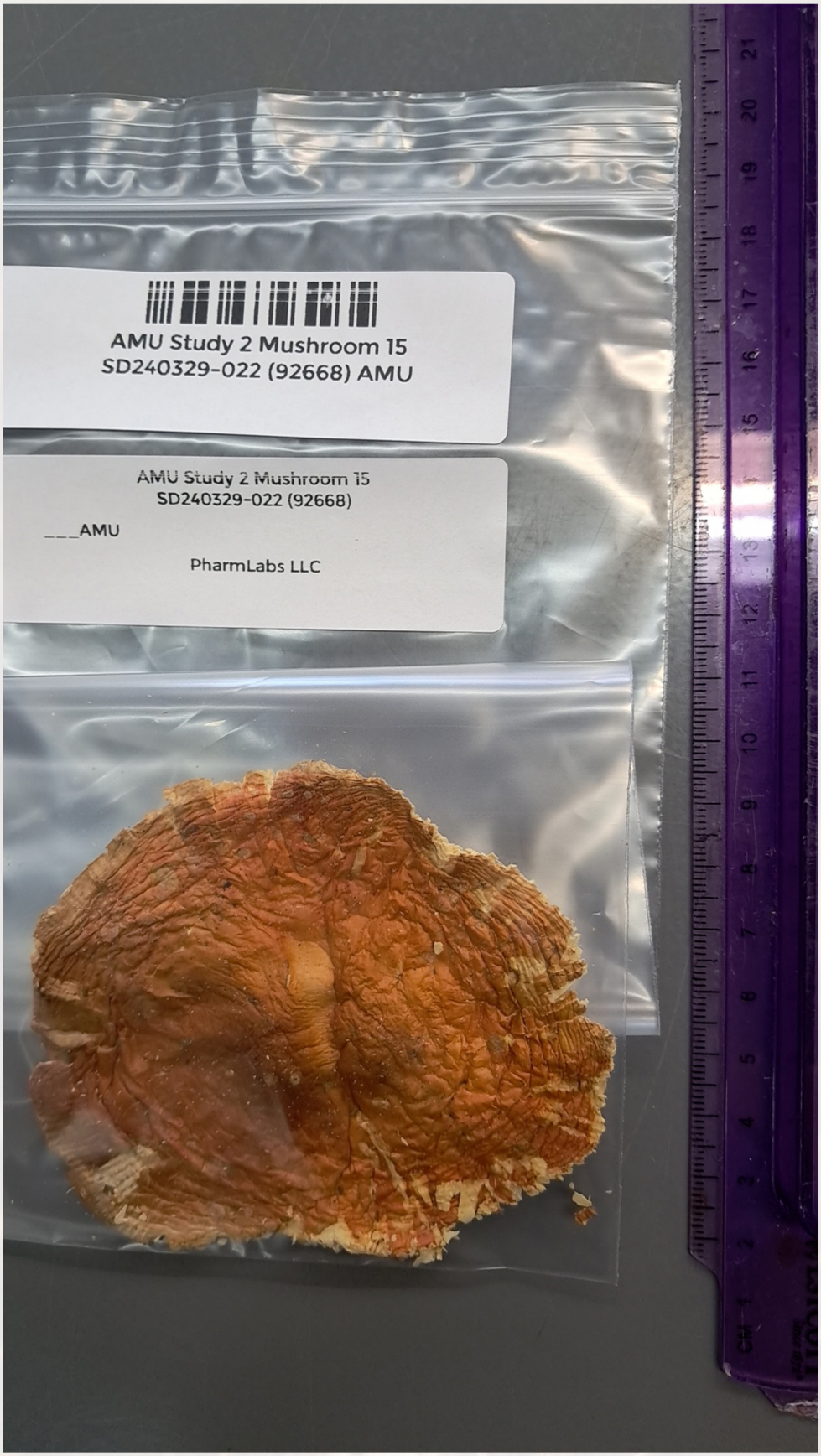
    Sorted By             :      Retention Time
    Calib. Data Modified  :      4/1/2024 11:36:42 AM
    Multiplier:                   :      1.0000
    Dilution:                     :      1.0000
    Use Multiplier & Dilution Factor with ISTDs

    Signal 1: VWD1 A, Wavelength=210 nm

    RetTime Sig Type     Area     Amt/Area    Amount   Grp   Name
     [min]           mAU   *s              mg/L (ppm)
    -------|--|------|----------|----------|----------|--|---------------
      7.109  1 MF      942.64917 4.99297e-1  470.66225    Ibotenic Acid
     10.593  1 VV      891.88763 1.11358e-1   99.31891    Muscimol

    Totals :                                 569.98116


    ================================================================
                           *** End of Report ***
```

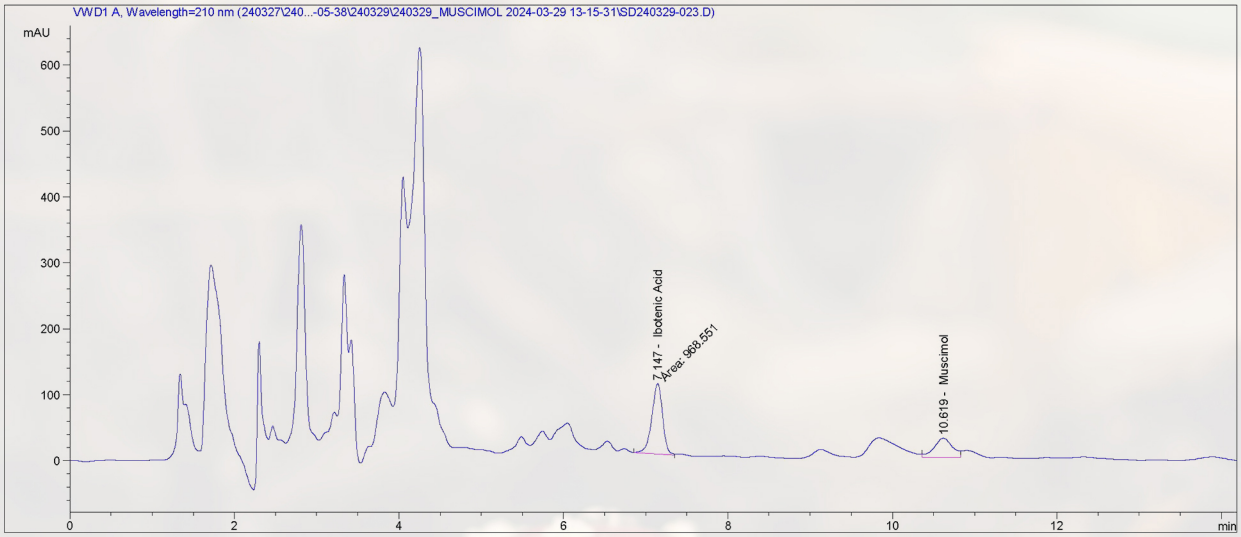

AMU Study 2 Mushroom 15
SD240329-022 (92668) AMU
AMU Study 2 Mushroom 15
SD240329-022 (92668)
___AMU
PharmLabs LLC

Data File C:\CHEM32\... 14-05-38\240329\240329_MUSCIMOL 2024-03-29 13-15-31\SD240329-023.D
Sample Name: SD240329-023

```
    ==================================================================
    Acq. Operator   : BVS                          Seq. Line :  20
    Acq. Instrument : Instrument 1                  Location : Vial 18
    Injection Date  : 3/29/2024 6:06:54 PM               Inj :  1
                                                  Inj Volume : 3.000 µl
    Acq. Method     : C:\CHEM32\1\DATA\240327\240327_MUSCIMOL 2024-03-27 14-05-38\240329\240329_MUSCIMOL 2024-03-29 13-15-31\7 MUSCIMOL.M
    Last changed    : 3/29/2024 1:15:29 PM by BVS
    Analysis Method : C:\CHEM32\1\DATA\240327\240327_MUSCIMOL 2024-03-27 14-05-38\240329\240329_MUSCIMOL 2024-03-29 13-15-31\7 MUSCIMOL.M
                      (Sequence Method)
    Last changed    : 4/1/2024 11:36:42 AM by BVS
                      (modified after loading)  (Results are from a previously saved Batch)

    Sample-related custom fields:

    Name                          |Value
    ------------------------------|---------------------------------------
    Additional Info : Peak(s) manually integrated
    ==================================================================
```




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    ==================================================================
                         External Standard Report
    ==================================================================

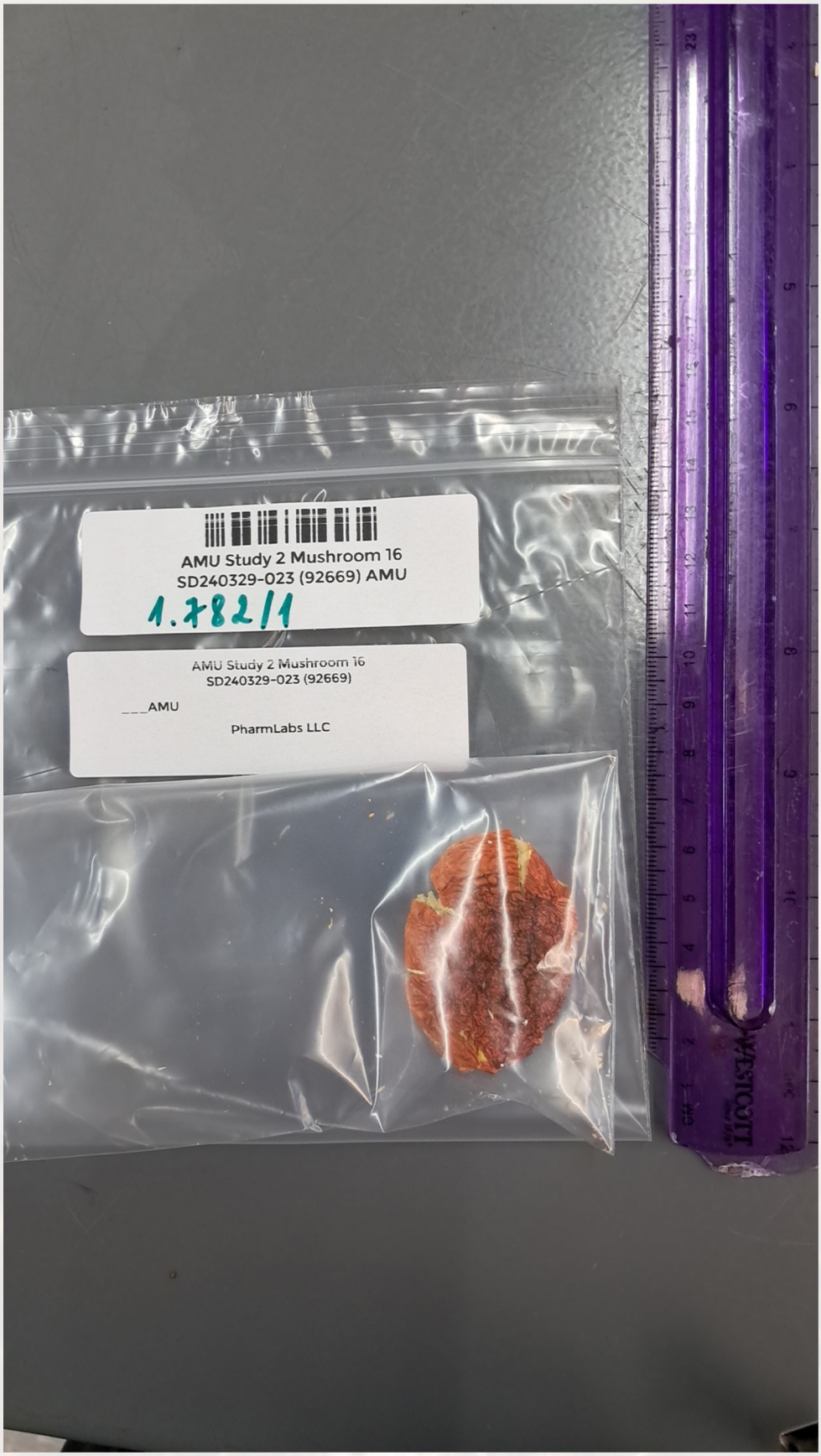
    Sorted By             :      Retention Time
    Calib. Data Modified  :      4/1/2024 11:36:42 AM
    Multiplier:                   :      1.0000
    Dilution:                     :      1.0000
    Use Multiplier & Dilution Factor with ISTDs

    Signal 1: VWD1 A, Wavelength=210 nm

    RetTime Sig Type     Area     Amt/Area    Amount   Grp   Name
     [min]           mAU   *s              mg/L (ppm)
    -------|--|------|----------|----------|----------|--|---------------
      7.147  1 MF      968.55054 4.99297e-1  483.59473    Ibotenic Acid
     10.619  1 VV      464.10187 1.11358e-1   51.68150    Muscimol

    Totals :                                 535.27623


    ==================================================================
                            *** End of Report ***
```

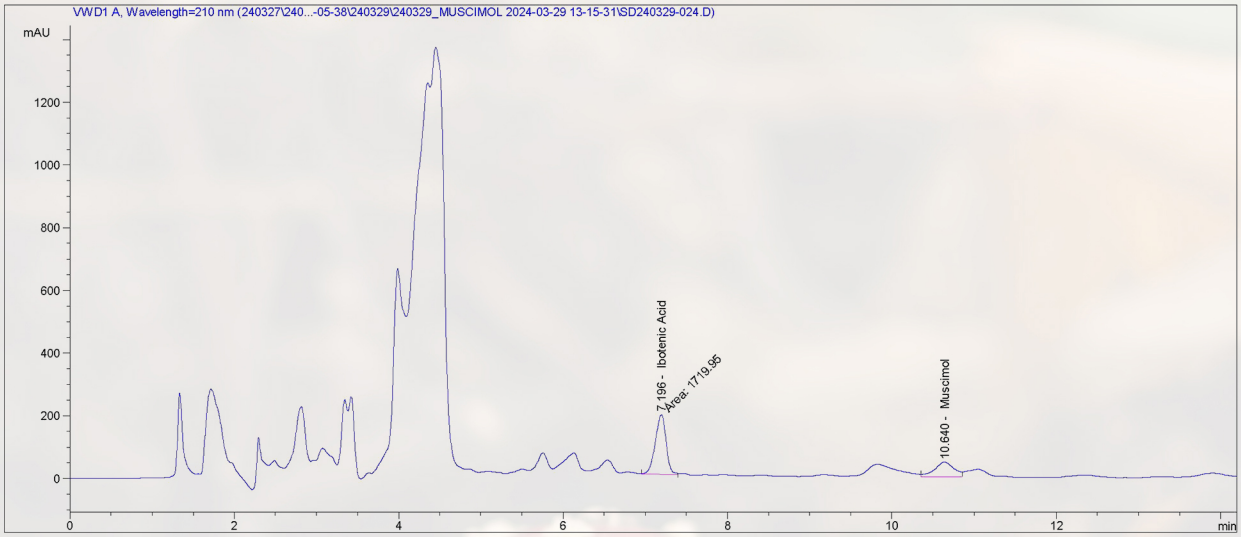

AMU Study 2 Mushroom 16
SD240329-023 (92669) AMU
1.782/1
AMU Study 2 Mushroom 16
SD240329-023 (92669)
___AMU
PharmLabs LLC

Data File C:\CHEM32\... 14-05-38\240329\240329_MUSCIMOL 2024-03-29 13-15-31\SD240329-024.D
Sample Name: SD240329-024

```
    ==================================================================
    Acq. Operator   : BVS                          Seq. Line :  21
    Acq. Instrument : Instrument 1                  Location : Vial 19
    Injection Date  : 3/29/2024 6:21:23 PM               Inj :   1
                                                  Inj Volume : 3.000 µl
    Acq. Method     : C:\CHEM32\1\DATA\240327\240327_MUSCIMOL 2024-03-27 14-05-38\240329\240329_MUSCIMOL 2024-03-29 13-15-31\7 MUSCIMOL.M
    Last changed    : 3/29/2024 1:15:29 PM by BVS
    Analysis Method : C:\CHEM32\1\DATA\240327\240327_MUSCIMOL 2024-03-27 14-05-38\240329\240329_MUSCIMOL 2024-03-29 13-15-31\7 MUSCIMOL.M
                      (Sequence Method)
    Last changed    : 4/1/2024 11:36:42 AM by BVS
                      (modified after loading)  (Results are from a previously saved Batch)

    Sample-related custom fields:

    Name                          |Value
    ------------------------------|-------------------------------------
    Additional Info : Peak(s) manually integrated
    ==================================================================
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    ==================================================================
                         External Standard Report
    ==================================================================

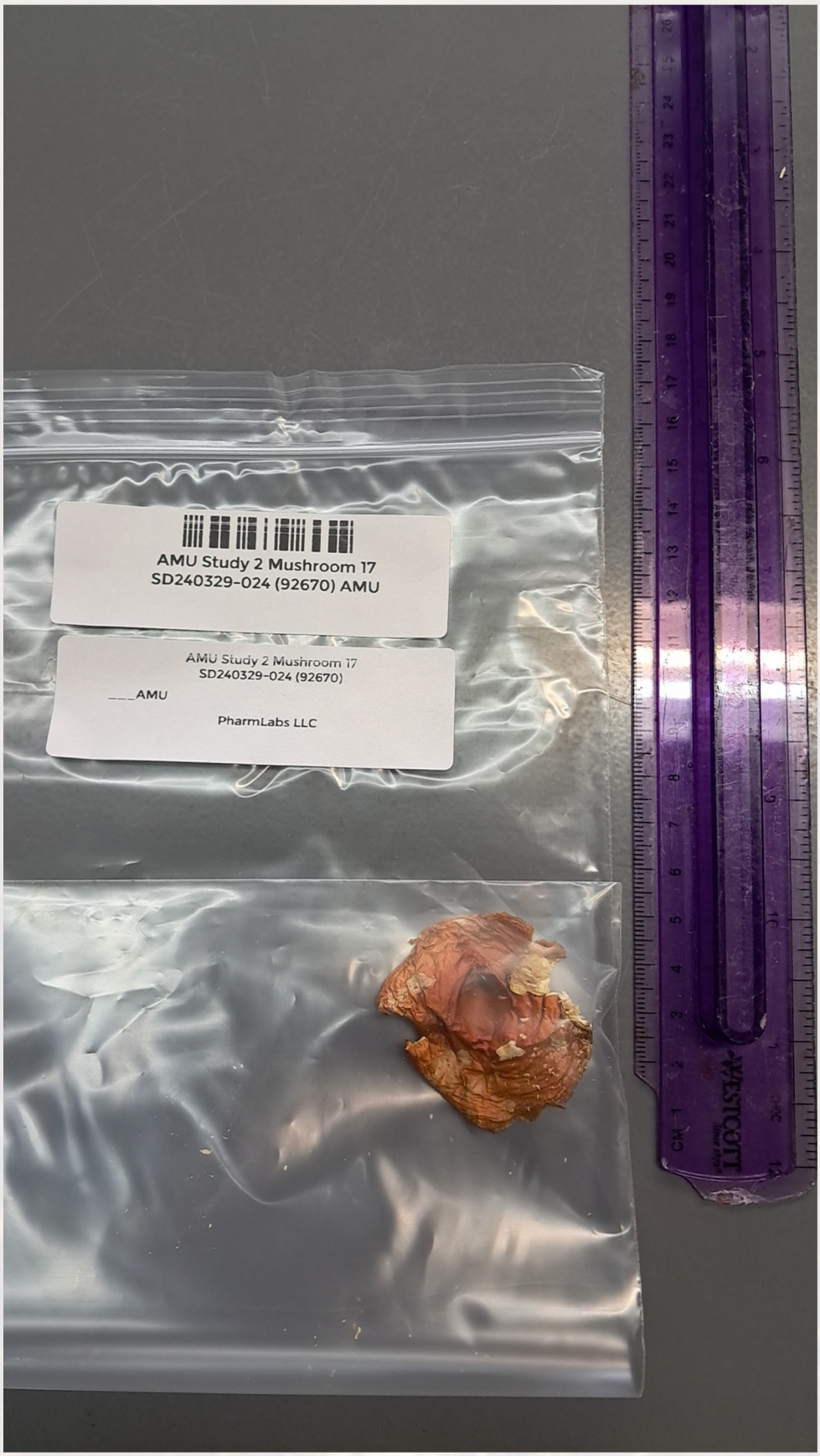
    Sorted By             :      Retention Time
    Calib. Data Modified  :      4/1/2024 11:36:42 AM
    Multiplier:                   :      1.0000
    Dilution:                     :      1.0000
    Use Multiplier & Dilution Factor with ISTDs

    Signal 1: VWD1 A, Wavelength=210 nm

    RetTime Sig Type     Area     Amt/Area    Amount   Grp   Name
     [min]           mAU   *s             mg/L (ppm)
    -------|--|------|----------|----------|----------|--|---------------
      7.196  1 MF     1719.95129 4.99297e-1  858.76715    Ibotenic Acid
     10.640  1 VV      768.96631 1.11358e-1   85.63062    Muscimol

    Totals :                                944.39777


    ==================================================================
                           *** End of Report ***
```

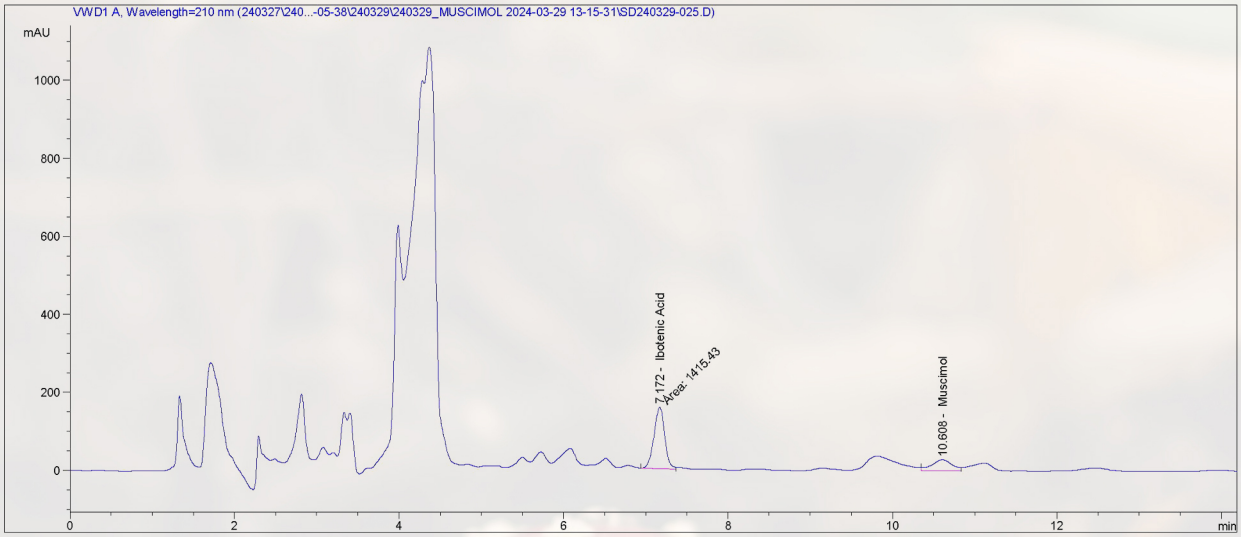

AMU Study 2 Mushroom 17
SD240329-024 (92670) AMU
AMU Study 2 Mushroom 17
SD240329-024 (92670)
___AMU
PharmLabs LLC
WESTCOTT

Data File C:\CHEM32\... 14-05-38\240329\240329_MUSCIMOL 2024-03-29 13-15-31\SD240329-025.D
Sample Name: SD240329-025

```
    ==================================================================
    Acq. Operator   : BVS                          Seq. Line :  22
    Acq. Instrument : Instrument 1                  Location : Vial 20
    Injection Date  : 3/29/2024 6:35:51 PM               Inj :  1
                                                  Inj Volume : 3.000 µl
    Acq. Method     : C:\CHEM32\1\DATA\240327\240327_MUSCIMOL 2024-03-27 14-05-38\240329\240329_MUSCIMOL 2024-03-29 13-15-31\7 MUSCIMOL.M
    Last changed    : 3/29/2024 1:15:29 PM by BVS
    Analysis Method : C:\CHEM32\1\DATA\240327\240327_MUSCIMOL 2024-03-27 14-05-38\240329\240329_MUSCIMOL 2024-03-29 13-15-31\7 MUSCIMOL.M
                      (Sequence Method)
    Last changed    : 4/1/2024 11:36:42 AM by BVS
                      (modified after loading)  (Results are from a previously saved Batch)

    Sample-related custom fields:

    Name                          |Value
    ------------------------------|---------------------------------------
    Additional Info : Peak(s) manually integrated
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    ==================================================================
                         External Standard Report
    ==================================================================

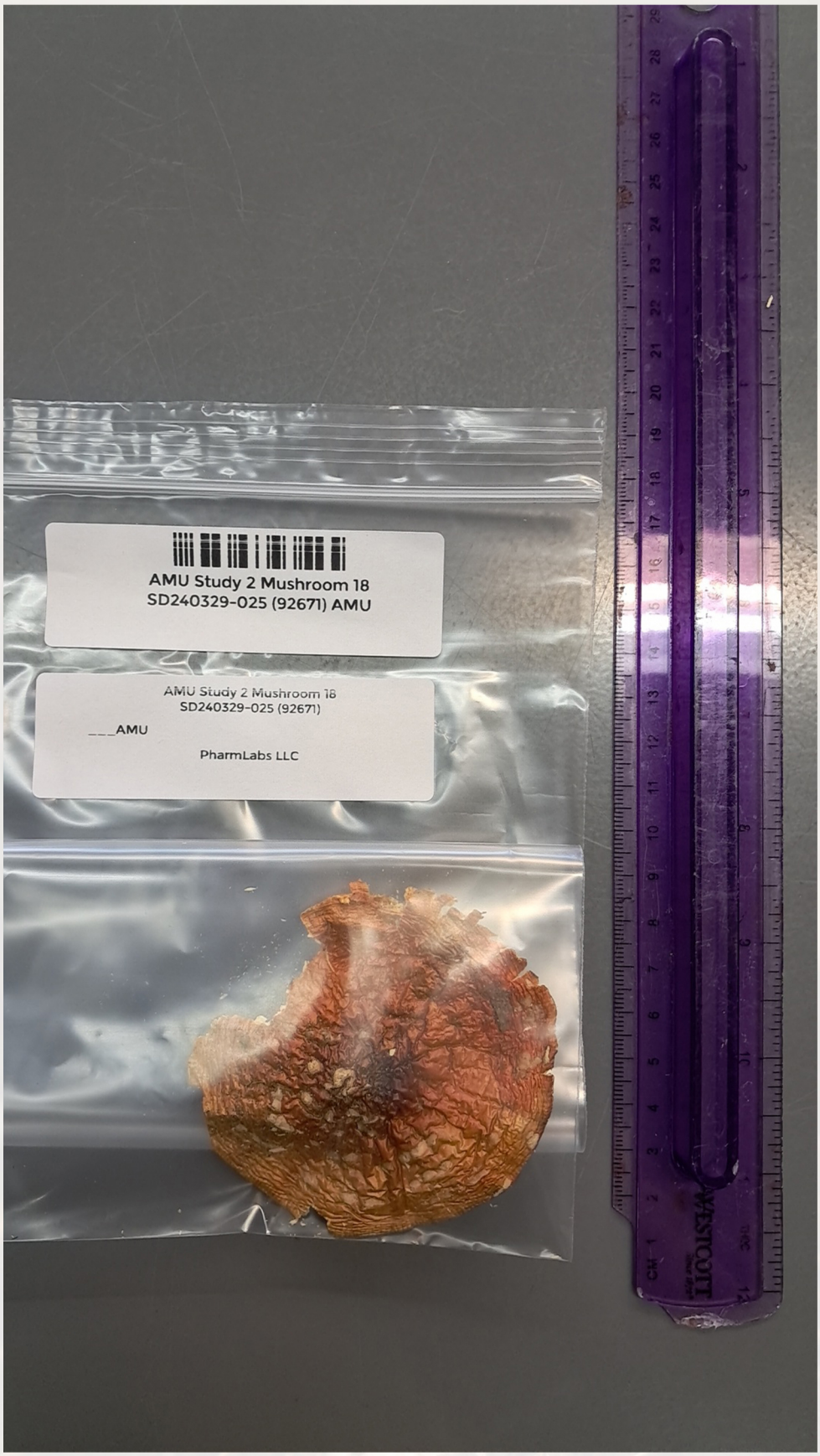
    Sorted By             :      Retention Time
    Calib. Data Modified  :      4/1/2024 11:36:42 AM
    Multiplier:                   :      1.0000
    Dilution:                     :      1.0000
    Use Multiplier & Dilution Factor with ISTDs

    Signal 1: VWD1 A, Wavelength=210 nm

    RetTime Sig Type     Area     Amt/Area    Amount   Grp   Name
     [min]           mAU   *s              mg/L (ppm)
    -------|--|------|----------|----------|----------|--|---------------
      7.172  1 MF     1415.43469 4.99297e-1  706.72281    Ibotenic Acid
     10.608  1 VV      482.25870 1.11358e-1   53.70341    Muscimol

    Totals :                                760.42622


    ==================================================================
                            *** End of Report ***
```

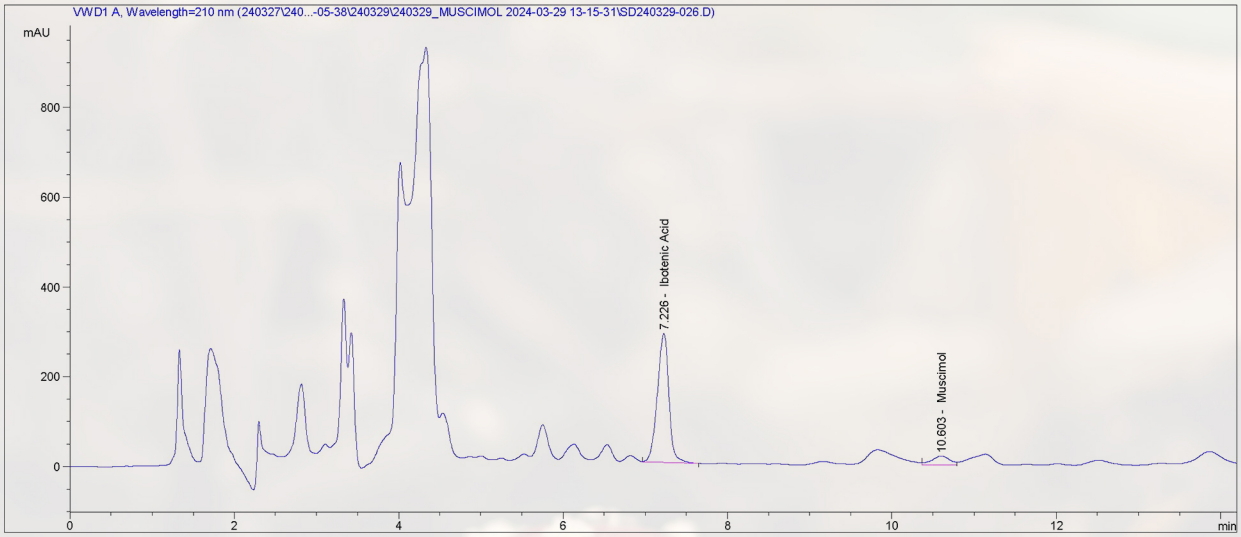

AMU Study 2 Mushroom 18
SD240329-025 (92671) AMU
AMU Study 2 Mushroom 18
SD240329-025 (92671)
___AMU
PharmLabs LLC

Data File C:\CHEM32\... 14-05-38\240329\240329_MUSCIMOL 2024-03-29 13-15-31\SD240329-026.D
Sample Name: SD240329-026

```
    ======================================================================
    Acq. Operator   : BVS                          Seq. Line :  23
    Acq. Instrument : Instrument 1                  Location : Vial 21
    Injection Date  : 3/29/2024 6:50:20 PM               Inj :  1
                                                  Inj Volume : 3.000 µl
    Acq. Method     : C:\CHEM32\1\DATA\240327\240327_MUSCIMOL 2024-03-27 14-05-38\240329\240329_MUSCIMOL 2024-03-29 13-15-31\7 MUSCIMOL.M
    Last changed    : 3/29/2024 1:15:29 PM by BVS
    Analysis Method : C:\CHEM32\1\DATA\240327\240327_MUSCIMOL 2024-03-27 14-05-38\240329\240329_MUSCIMOL 2024-03-29 13-15-31\7 MUSCIMOL.M
                      (Sequence Method)
    Last changed    : 4/1/2024 11:36:42 AM by BVS
                      (modified after loading)  (Results are from a previously saved Batch)

    Sample-related custom fields:

    Name                          |Value
    ------------------------------|---------------------------------------
    Additional Info : Peak(s) manually integrated
    ======================================================================
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                        External Standard Report
    ======================================================================

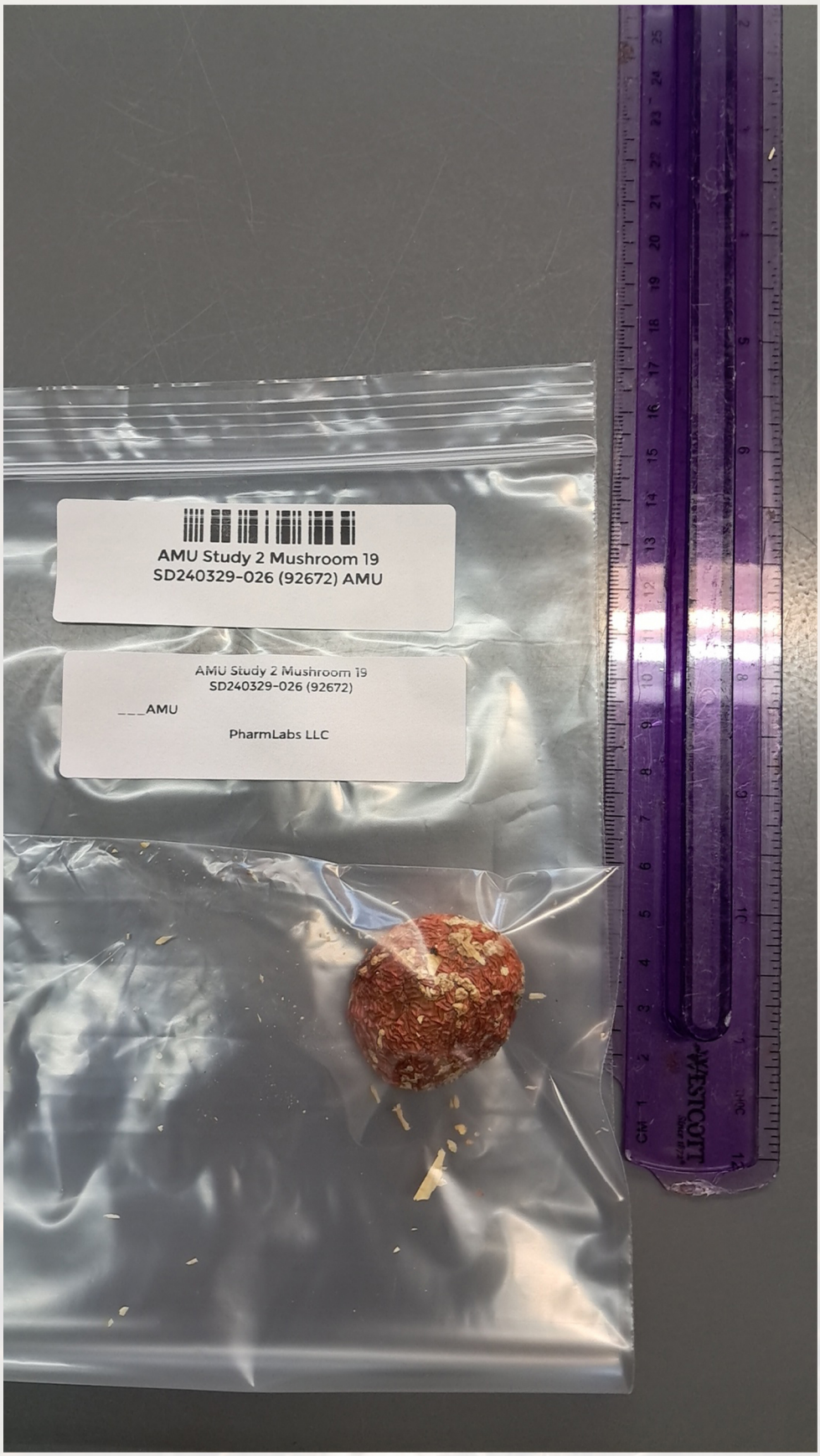
    Sorted By             :      Retention Time
    Calib. Data Modified  :      4/1/2024 11:36:42 AM
    Multiplier:                   :      1.0000
    Dilution:                     :      1.0000
    Use Multiplier & Dilution Factor with ISTDs

    Signal 1: VWD1 A, Wavelength=210 nm

    RetTime Sig Type     Area     Amt/Area    Amount   Grp   Name
     [min]           mAU   *s              mg/L (ppm)
    -------|--|------|----------|----------|----------|--|---------------
      7.226  1 VB     2794.82202 4.99297e-1 1395.44727    Ibotenic Acid
     10.603  1 VV      297.60025 1.11358e-1   33.14020    Muscimol

    Totals :                                1428.58747


    ======================================================================
                           *** End of Report ***
```

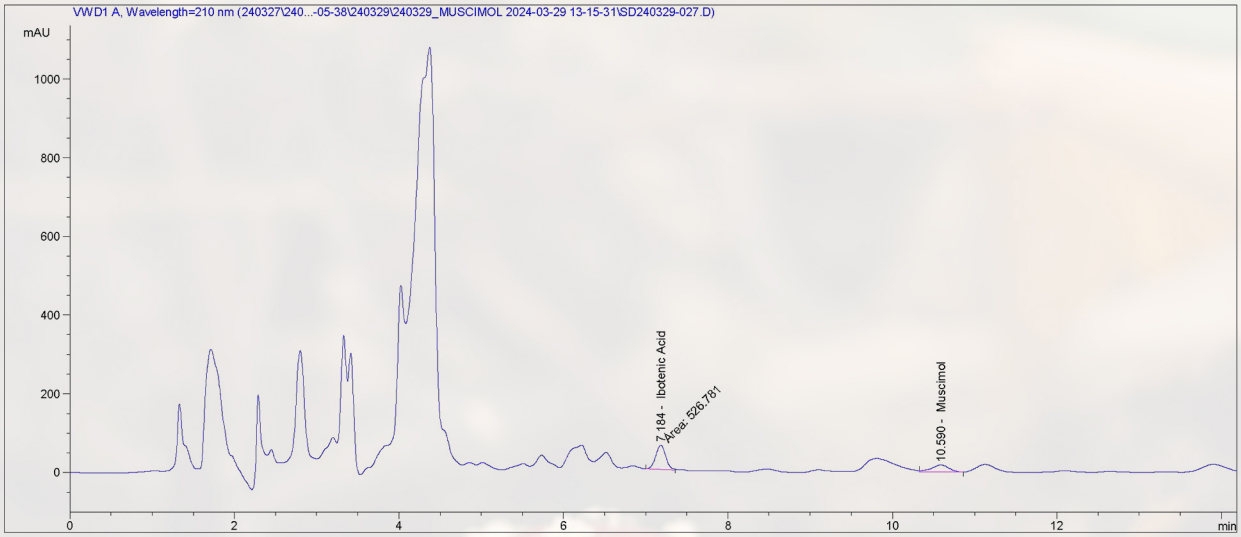

AMU Study 2 Mushroom 19
SD240329-026 (92672) AMU
AMU Study 2 Mushroom 19
SD240329-026 (92672)
___AMU
PharmLabs LLC

Data File C:\CHEM32\... 14-05-38\240329\240329_MUSCIMOL 2024-03-29 13-15-31\SD240329-027.D
Sample Name: SD240329-027

```
    ======================================================================
    Acq. Operator   : BVS                          Seq. Line :  24
    Acq. Instrument : Instrument 1                  Location : Vial 22
    Injection Date  : 3/29/2024 7:04:48 PM               Inj :  1
                                                   Inj Volume : 3.000 µl
    Acq. Method     : C:\CHEM32\1\DATA\240327\240327_MUSCIMOL 2024-03-27 14-05-38\240329\240329_MUSCIMOL 2024-03-29 13-15-31\7 MUSCIMOL.M
    Last changed    : 3/29/2024 1:15:29 PM by BVS
    Analysis Method : C:\CHEM32\1\DATA\240327\240327_MUSCIMOL 2024-03-27 14-05-38\240329\240329_MUSCIMOL 2024-03-29 13-15-31\7 MUSCIMOL.M
                      (Sequence Method)
    Last changed    : 4/1/2024 11:36:42 AM by BVS
                      (modified after loading)  (Results are from a previously saved Batch)

    Sample-related custom fields:

    Name                          |Value
    ------------------------------|---------------------------------------
    Additional Info : Peak(s) manually integrated
    ======================================================================
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                        External Standard Report
    ======================================================================

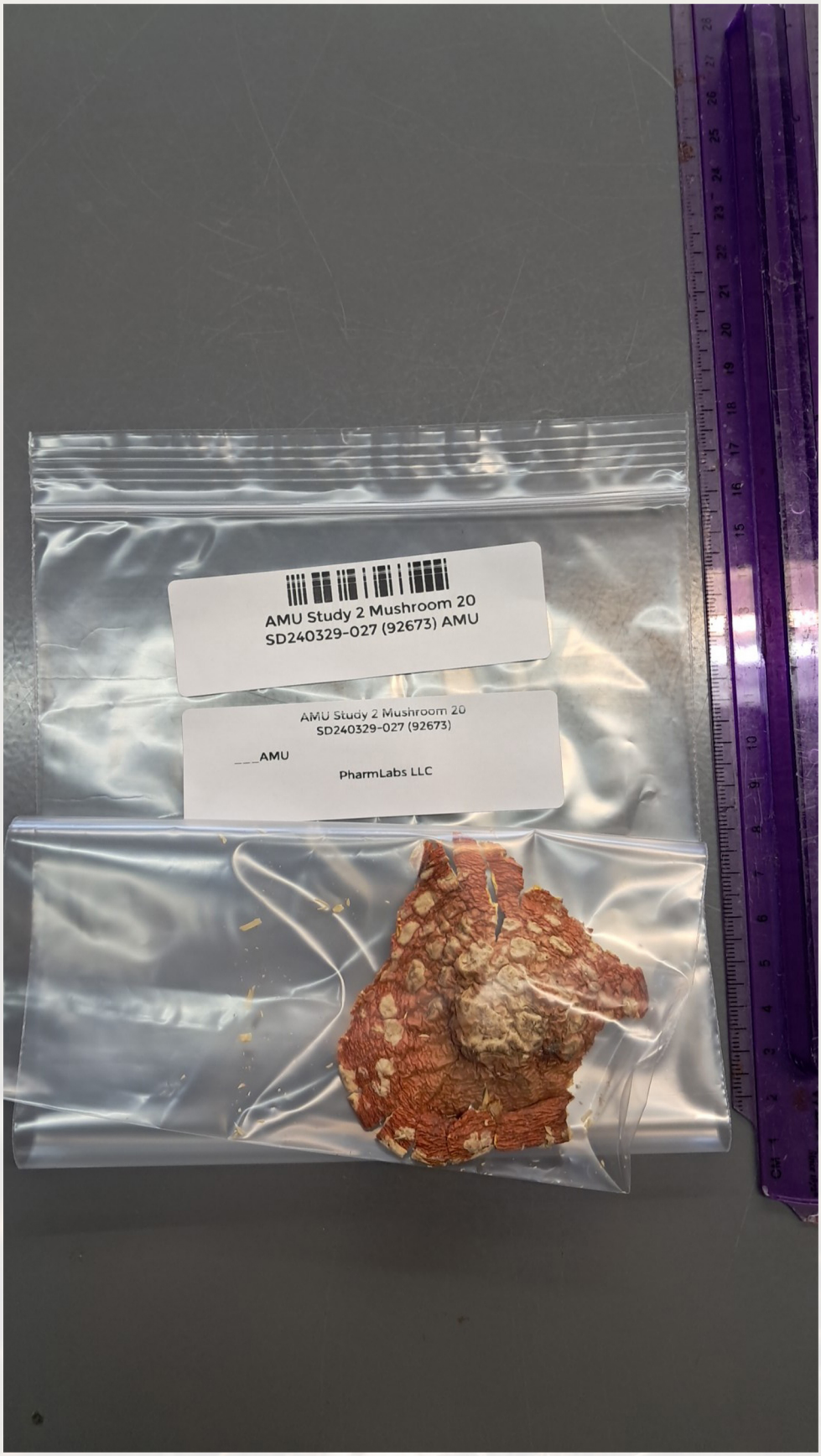
    Sorted By             :      Retention Time
    Calib. Data Modified  :      4/1/2024 11:36:42 AM
    Multiplier:                   :      1.0000
    Dilution:                     :      1.0000
    Use Multiplier & Dilution Factor with ISTDs

    Signal 1: VWD1 A, Wavelength=210 nm

    RetTime Sig Type     Area     Amt/Area    Amount   Grp   Name
     [min]           mAU   *s              mg/L (ppm)
    -------|--|------|----------|----------|----------|--|---------------
      7.184  1 MF      526.78119 4.99297e-1  263.02046    Ibotenic Acid
     10.590  1 VB      265.93610 1.11358e-1   29.61414    Muscimol

    Totals :                                292.63460


    ======================================================================
                            *** End of Report ***
```

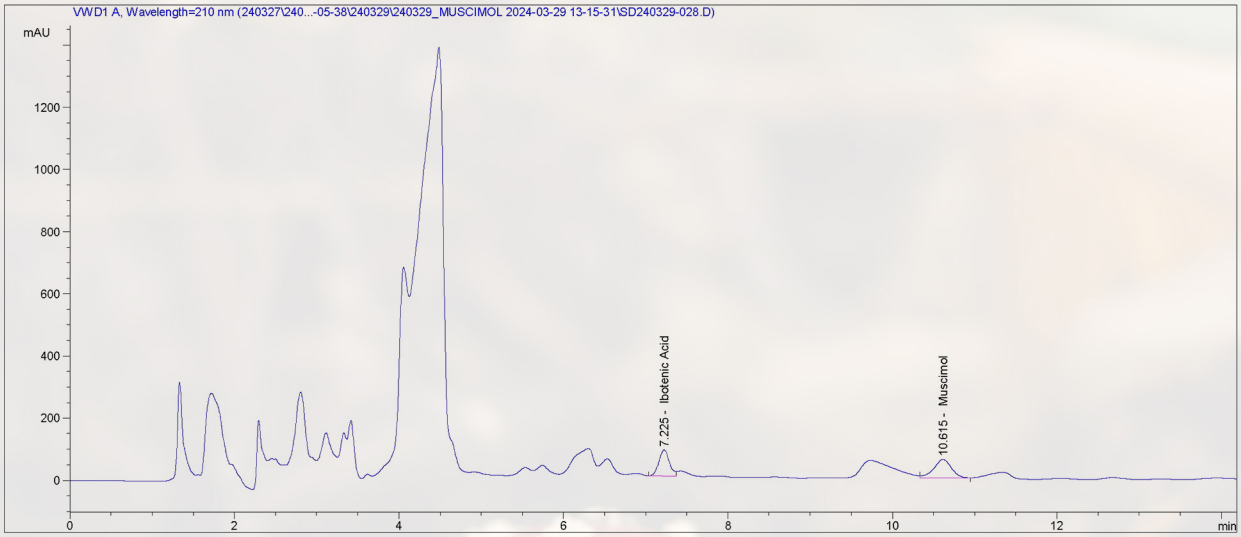

AMU Study 2 Mushroom 20
SD240329-027 (92673) AMU
AMU Study 2 Mushroom 20
SD240329-027 (92673)
___AMU
PharmLabs LLC

Data File C:\CHEM32\... 14-05-38\240329\240329_MUSCIMOL 2024-03-29 13-15-31\SD240329-028.D
Sample Name: SD240329-028

```
    ======================================================================
    Acq. Operator    : BVS                          Seq. Line :  26
    Acq. Instrument  : Instrument 1                  Location : Vial 23
    Injection Date   : 3/29/2024 7:33:46 PM               Inj :   1
                                                   Inj Volume : 3.000 µl
    Acq. Method      : C:\CHEM32\1\DATA\240327\240327_MUSCIMOL 2024-03-27 14-05-38\240329\240329_MUSCIMOL 2024-03-29 13-15-31\7 MUSCIMOL.M
    Last changed     : 3/29/2024 1:15:29 PM by BVS
    Analysis Method  : C:\CHEM32\1\DATA\240327\240327_MUSCIMOL 2024-03-27 14-05-38\240329\240329_MUSCIMOL 2024-03-29 13-15-31\7 MUSCIMOL.M
                       (Sequence Method)
    Last changed     : 4/1/2024 11:36:42 AM by BVS
                       (modified after loading)  (Results are from a previously saved Batch)

    Sample-related custom fields:

    Name                          |Value
    ------------------------------|---------------------------------------
    Additional Info : Peak(s) manually integrated
    ======================================================================
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    ======================================================================
                         External Standard Report
    ======================================================================

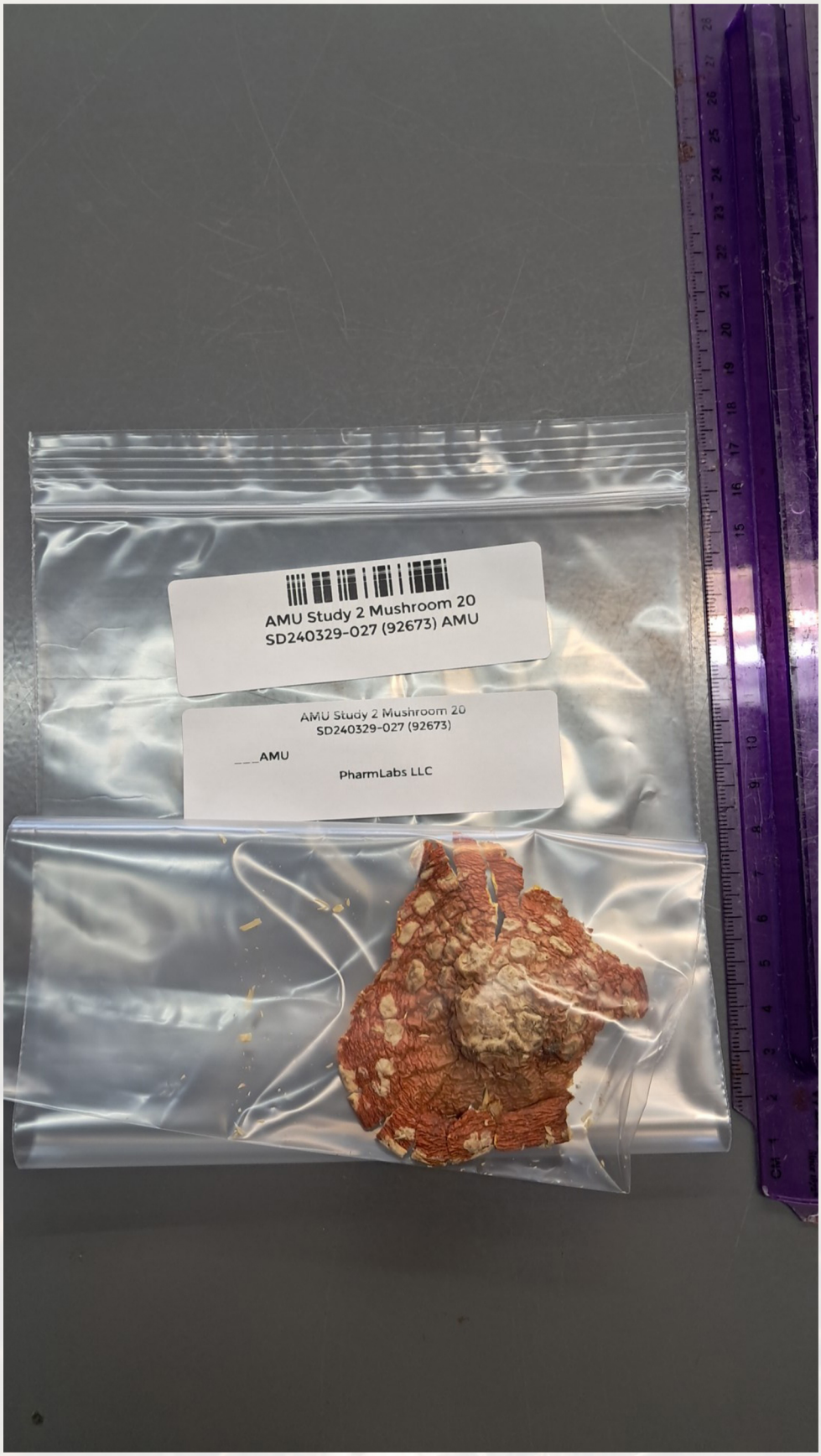
    Sorted By             :      Retention Time
    Calib. Data Modified  :      4/1/2024 11:36:42 AM
    Multiplier:                   :      1.0000
    Dilution:                     :      1.0000
    Use Multiplier & Dilution Factor with ISTDs

    Signal 1: VWD1 A, Wavelength=210 nm

    RetTime Sig Type     Area     Amt/Area    Amount   Grp   Name
     [min]           mAU   *s              mg/L (ppm)
    -------|--|------|----------|----------|----------|--|---------------
      7.225  1 BV      743.27441 4.99297e-1  371.11496    Ibotenic Acid
     10.615  1 VB      874.66498 1.11358e-1   97.40103    Muscimol

    Totals :                                 468.51598


    ======================================================================
                            *** End of Report ***
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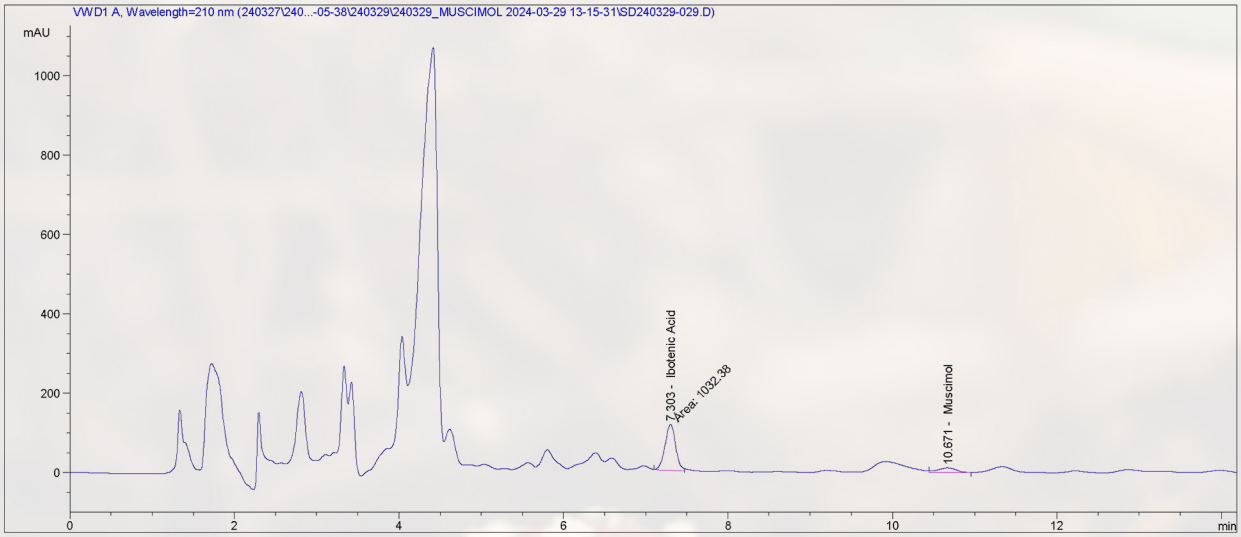

AMU Study 2 Mushroom 20
SD240329-027 (92673) AMU
AMU Study 2 Mushroom 20
SD240329-027 (92673)
___AMU
PharmLabs LLC

Data File C:\CHEM32\... 14-05-38\240329\240329_MUSCIMOL 2024-03-29 13-15-31\SD240329-029.D
Sample Name: SD240329-029

```
    ======================================================================
    Acq. Operator   : BVS                          Seq. Line :  27
    Acq. Instrument : Instrument 1                  Location : Vial 24
    Injection Date  : 3/29/2024 7:48:15 PM               Inj :  1
                                                  Inj Volume : 3.000 µl
    Acq. Method     : C:\CHEM32\1\DATA\240327\240327_MUSCIMOL 2024-03-27 14-05-38\240329\240329_MUSCIMOL 2024-03-29 13-15-31\7 MUSCIMOL.M
    Last changed    : 3/29/2024 1:15:29 PM by BVS
    Analysis Method : C:\CHEM32\1\DATA\240327\240327_MUSCIMOL 2024-03-27 14-05-38\240329\240329_MUSCIMOL 2024-03-29 13-15-31\7 MUSCIMOL.M
                      (Sequence Method)
    Last changed    : 4/1/2024 11:36:42 AM by BVS
                      (modified after loading)  (Results are from a previously saved Batch)

    Sample-related custom fields:

    Name                          |Value
    ------------------------------|---------------------------------------
    Additional Info : Peak(s) manually integrated
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    ======================================================================
                        External Standard Report
    ======================================================================

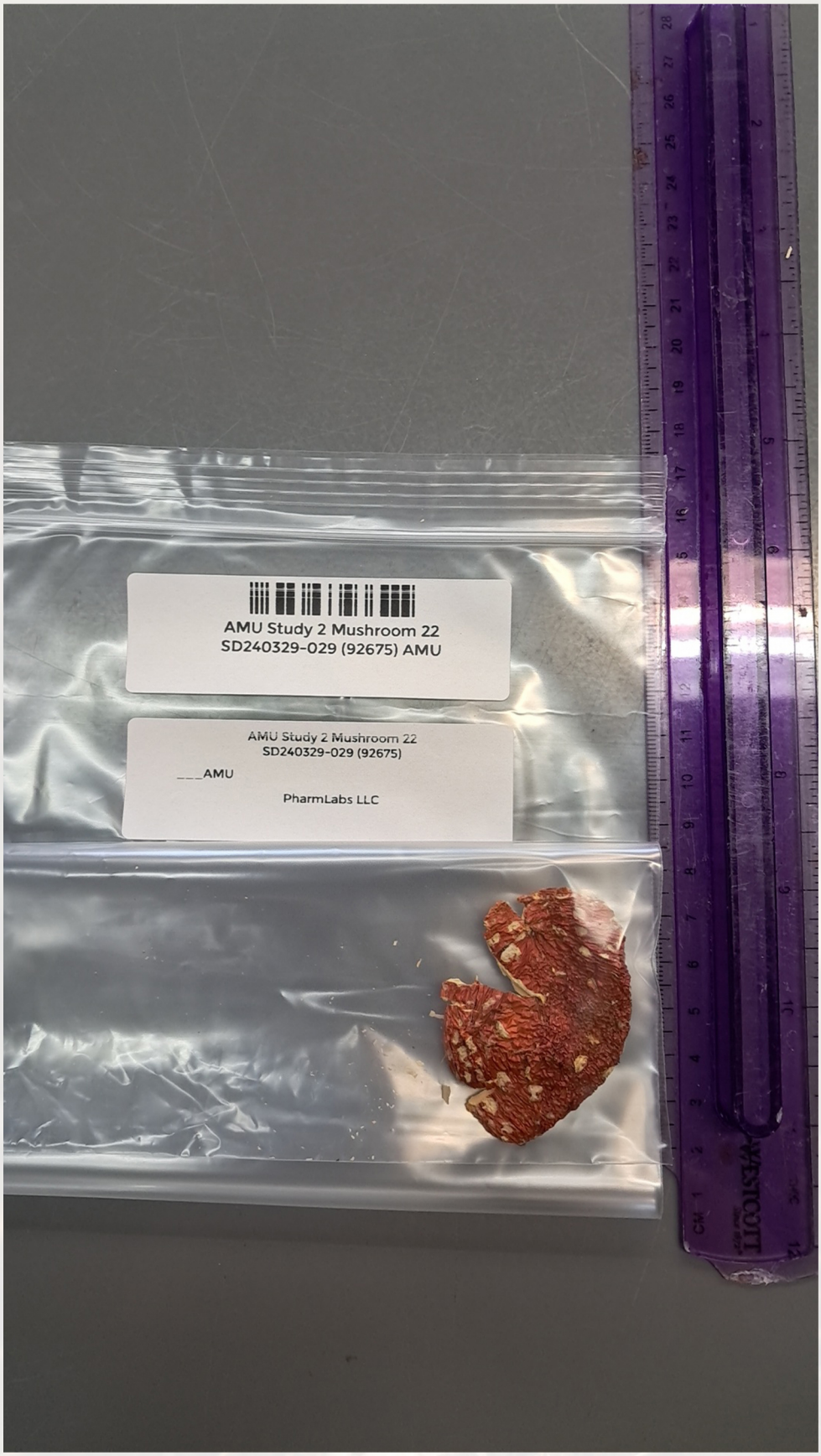
    Sorted By             :      Retention Time
    Calib. Data Modified  :      4/1/2024 11:36:42 AM
    Multiplier:                   :      1.0000
    Dilution:                     :      1.0000
    Use Multiplier & Dilution Factor with ISTDs

    Signal 1: VWD1 A, Wavelength=210 nm

    RetTime Sig Type     Area     Amt/Area    Amount   Grp   Name
     [min]           mAU   *s              mg/L (ppm)
    -------|--|------|----------|----------|----------|--|---------------
      7.303  1 MF     1032.37683 4.99297e-1  515.46303    Ibotenic Acid
     10.671  1 VB      171.95053 1.11358e-1   19.14808    Muscimol

    Totals :                                 534.61111


    ======================================================================
                            *** End of Report ***
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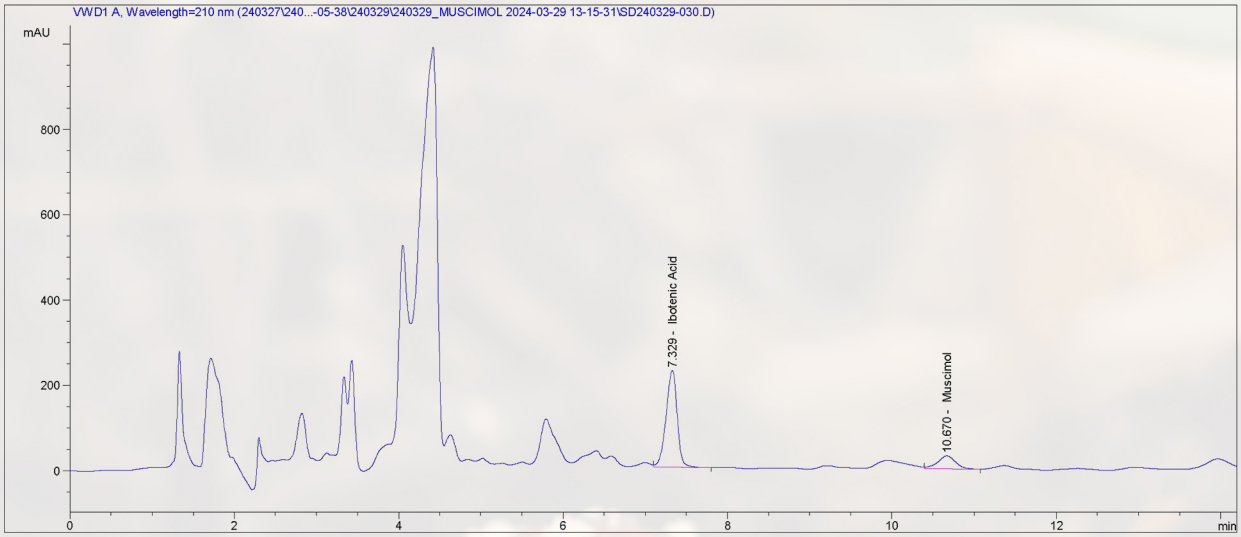

AMU Study 2 Mushroom 22
SD240329-029 (92675) AMU
AMU Study 2 Mushroom 22
SD240329-029 (92675)
___AMU
PharmLabs LLC

Data File C:\CHEM32\... 14-05-38\240329\240329_MUSCIMOL 2024-03-29 13-15-31\SD240329-030.D
Sample Name: SD240329-030

```
    ================================================================
    Acq. Operator   : BVS                          Seq. Line :  28
    Acq. Instrument : Instrument 1                  Location : Vial 25
    Injection Date  : 3/29/2024 8:02:43 PM               Inj :   1
                                                   Inj Volume : 3.000 µl
    Acq. Method     : C:\CHEM32\1\DATA\240327\240327_MUSCIMOL 2024-03-27 14-05-38\240329\240329_MUSCIMOL 2024-03-29 13-15-31\7 MUSCIMOL.M
    Last changed    : 3/29/2024 1:15:29 PM by BVS
    Analysis Method : C:\CHEM32\1\DATA\240327\240327_MUSCIMOL 2024-03-27 14-05-38\240329\240329_MUSCIMOL 2024-03-29 13-15-31\7 MUSCIMOL.M
                      (Sequence Method)
    Last changed    : 4/1/2024 11:36:42 AM by BVS
                      (modified after loading)  (Results are from a previously saved Batch)

    Sample-related custom fields:

    Name                          |Value
    ------------------------------|---------------------------------------
    Additional Info : Peak(s) manually integrated
    ================================================================
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                          External Standard Report
    ================================================================

    Sorted By             :      Retention Time
    Calib. Data Modified  :      4/1/2024 11:36:42 AM
    Multiplier:                   :      1.0000
    Dilution:                     :      1.0000
    Use Multiplier & Dilution Factor with ISTDs

    Signal 1: VWD1 A, Wavelength=210 nm

    RetTime Sig Type     Area     Amt/Area    Amount   Grp   Name
     [min]           mAU   *s              mg/L (ppm)
    -------|--|------|----------|----------|----------|--|---------------
      7.329  1 VB     2130.20996 4.99297e-1 1063.60822    Ibotenic Acid
     10.670  1 VB      470.04083 1.11358e-1   52.34285    Muscimol

    Totals :                                1115.95107


    ================================================================
                             *** End of Report ***
```

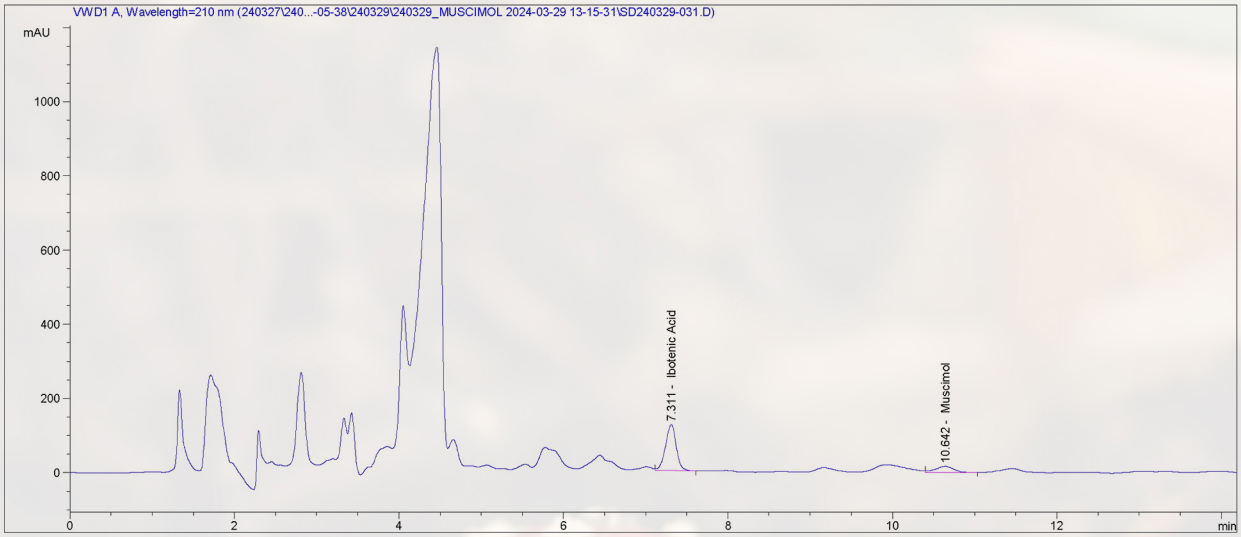

AMU Study 2 Mushroom 23
SD240329-030 (92676) AMU
AMU Study 2 Mushroom 23
SD240329-030 (92676)
___AMU
PharmLabs LLC

Data File C:\CHEM32\... 14-05-38\240329\240329_MUSCIMOL 2024-03-29 13-15-31\SD240329-031.D
Sample Name: SD240329-031

```
    ================================================================
    Acq. Operator   : BVS                          Seq. Line :  29
    Acq. Instrument : Instrument 1                  Location : Vial 26
    Injection Date  : 3/29/2024 8:17:12 PM               Inj :   1
                                                   Inj Volume : 3.000 µl
    Acq. Method     : C:\CHEM32\1\DATA\240327\240327_MUSCIMOL 2024-03-27 14-05-38\240329\240329_MUSCIMOL 2024-03-29 13-15-31\7 MUSCIMOL.M
    Last changed    : 3/29/2024 1:15:29 PM by BVS
    Analysis Method : C:\CHEM32\1\DATA\240327\240327_MUSCIMOL 2024-03-27 14-05-38\240329\240329_MUSCIMOL 2024-03-29 13-15-31\7 MUSCIMOL.M
                      (Sequence Method)
    Last changed    : 4/1/2024 11:36:42 AM by BVS
                      (modified after loading)  (Results are from a previously saved Batch)

    Sample-related custom fields:

    Name                          |Value
    ------------------------------|---------------------------------------
    Additional Info : Peak(s) manually integrated
    ================================================================
```




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    ================================================================
                        External Standard Report
    ================================================================

    Sorted By             :      Retention Time
    Calib. Data Modified  :      4/1/2024 11:36:42 AM
    Multiplier:                   :      1.0000
    Dilution:                     :      1.0000
    Use Multiplier & Dilution Factor with ISTDs

    Signal 1: VWD1 A, Wavelength=210 nm

    RetTime Sig Type     Area     Amt/Area    Amount   Grp   Name
     [min]           mAU   *s              mg/L (ppm)
    -------|--|------|----------|----------|----------|--|---------------
      7.311  1 VB     1110.06323 4.99297e-1  554.25165    Ibotenic Acid
     10.642  1 VB      249.95108 1.11358e-1   27.83408    Muscimol

    Totals :                                582.08572


    ================================================================
                           *** End of Report ***
```

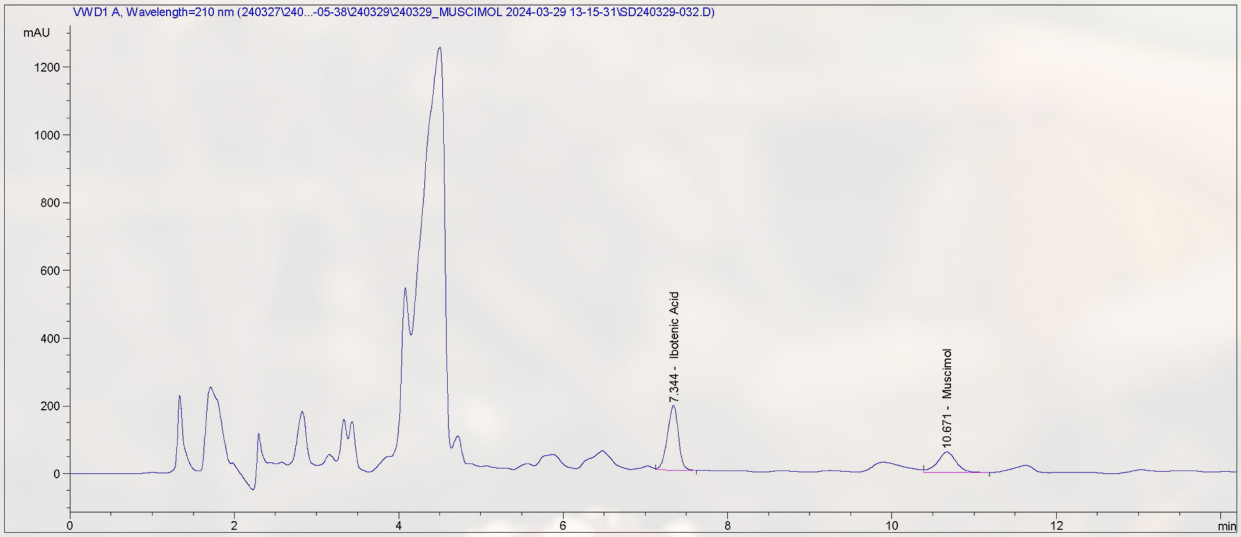

AMU Study 2 Mushroom 24
SD240329-031 (92677) AMU
AMU Study 2 Mushroom 24
SD240329-031 (92677)
___AMU
PharmLabs LLC

Data File C:\CHEM32\... 14-05-38\240329\240329_MUSCIMOL 2024-03-29 13-15-31\SD240329-032.D
Sample Name: SD240329-032

```
    ======================================================================
    Acq. Operator   : BVS                          Seq. Line :  30
    Acq. Instrument : Instrument 1                  Location : Vial 27
    Injection Date  : 3/29/2024 8:31:40 PM               Inj :   1
                                                   Inj Volume : 3.000 µl
    Acq. Method     : C:\CHEM32\1\DATA\240327\240327_MUSCIMOL 2024-03-27 14-05-38\240329\240329_MUSCIMOL 2024-03-29 13-15-31\7 MUSCIMOL.M
    Last changed    : 3/29/2024 1:15:29 PM by BVS
    Analysis Method : C:\CHEM32\1\DATA\240327\240327_MUSCIMOL 2024-03-27 14-05-38\240329\240329_MUSCIMOL 2024-03-29 13-15-31\7 MUSCIMOL.M
                      (Sequence Method)
    Last changed    : 4/1/2024 11:36:42 AM by BVS
                      (modified after loading)  (Results are from a previously saved Batch)

    Sample-related custom fields:

    Name                          |Value
    ------------------------------|---------------------------------------
    Additional Info : Peak(s) manually integrated
    ======================================================================
```




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                         External Standard Report
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    Sorted By             :      Retention Time
    Calib. Data Modified  :      4/1/2024 11:36:42 AM
    Multiplier:                   :      1.0000
    Dilution:                     :      1.0000
    Use Multiplier & Dilution Factor with ISTDs

    Signal 1: VWD1 A, Wavelength=210 nm

    RetTime Sig Type     Area     Amt/Area    Amount   Grp   Name
     [min]           mAU   *s              mg/L (ppm)
    -------|--|------|----------|----------|----------|--|---------------
      7.344  1 VV     1767.53650 4.99297e-1  882.52632    Ibotenic Acid
     10.671  1 VV      997.07648 1.11358e-1  111.03254    Muscimol

    Totals :                                 993.55885


    ======================================================================
                            *** End of Report ***
```

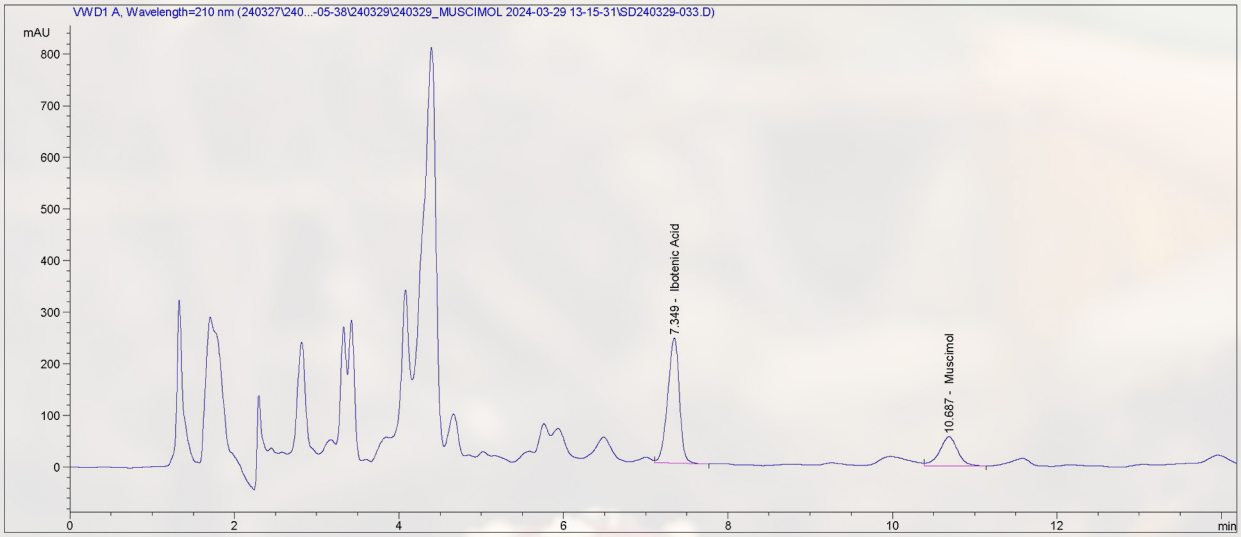

AMU Study 2 Mushroom 24
SD240329-031 (92677) AMU
AMU Study 2 Mushroom 24
SD240329-031 (92677)
___AMU
PharmLabs LLC

Data File C:\CHEM32\... 14-05-38\240329\240329_MUSCIMOL 2024-03-29 13-15-31\SD240329-033.D
Sample Name: SD240329-033

```
    ==================================================================
    Acq. Operator   : BVS                          Seq. Line :  31
    Acq. Instrument : Instrument 1                  Location : Vial 28
    Injection Date  : 3/29/2024 8:46:09 PM               Inj :   1
                                                   Inj Volume : 3.000 µl
    Acq. Method     : C:\CHEM32\1\DATA\240327\240327_MUSCIMOL 2024-03-27 14-05-38\240329\240329_MUSCIMOL 2024-03-29 13-15-31\7 MUSCIMOL.M
    Last changed    : 3/29/2024 1:15:29 PM by BVS
    Analysis Method : C:\CHEM32\1\DATA\240327\240327_MUSCIMOL 2024-03-27 14-05-38\240329\240329_MUSCIMOL 2024-03-29 13-15-31\7 MUSCIMOL.M
                      (Sequence Method)
    Last changed    : 4/1/2024 11:36:42 AM by BVS
                      (modified after loading)  (Results are from a previously saved Batch)

    Sample-related custom fields:

    Name                          |Value
    ------------------------------|---------------------------------------
    Additional Info : Peak(s) manually integrated
    ==================================================================
```




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                         External Standard Report
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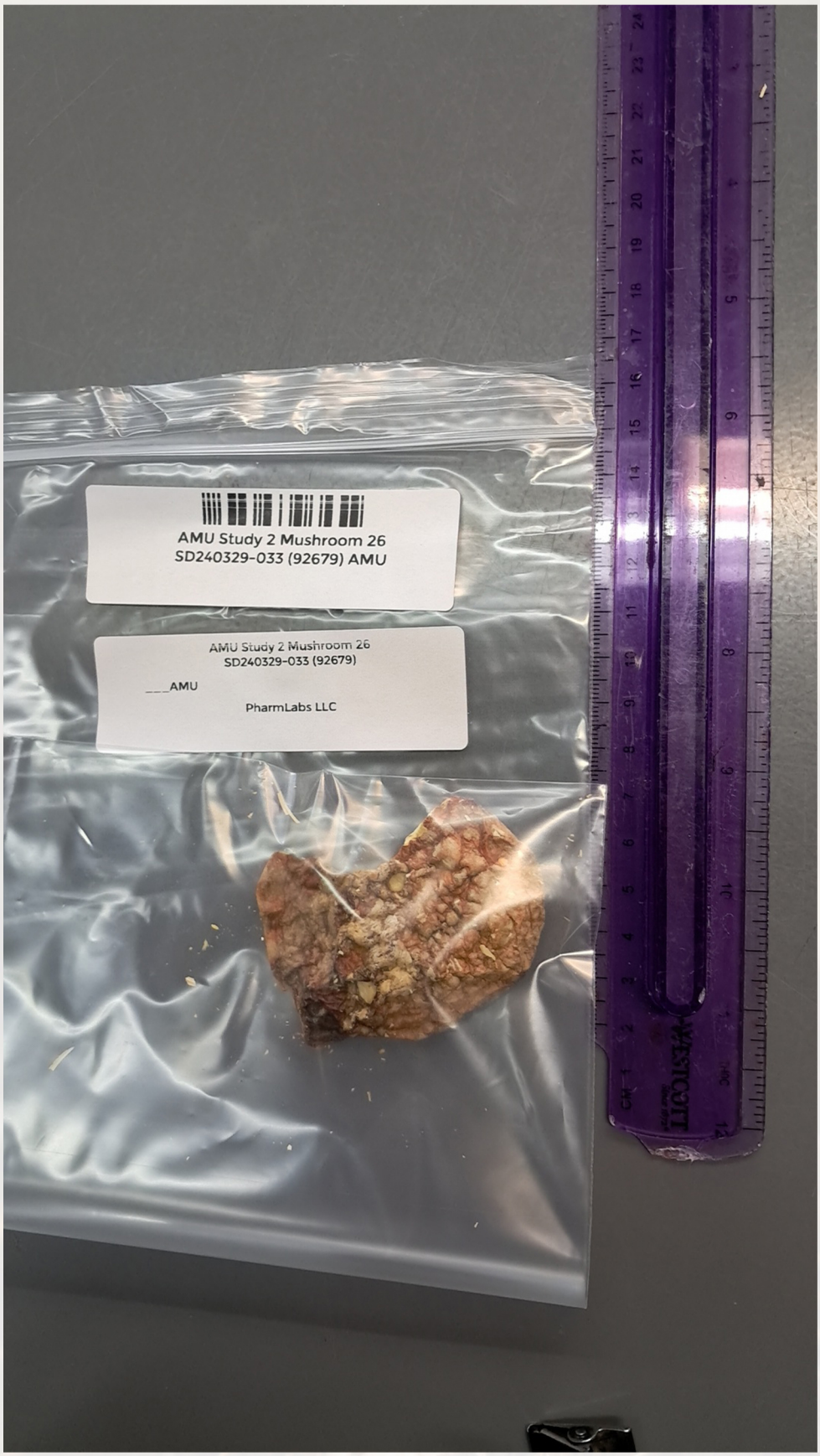
    Sorted By             :      Retention Time
    Calib. Data Modified  :      4/1/2024 11:36:42 AM
    Multiplier:                   :      1.0000
    Dilution:                     :      1.0000
    Use Multiplier & Dilution Factor with ISTDs

    Signal 1: VWD1 A, Wavelength=210 nm

    RetTime Sig Type     Area     Amt/Area    Amount   Grp   Name
     [min]           mAU   *s             mg/L (ppm)
    -------|--|------|----------|----------|----------|--|---------------
      7.349  1 VB     2375.92627 4.99297e-1 1186.29372    Ibotenic Acid
     10.687  1 VV      877.57129 1.11358e-1   97.72467    Muscimol

    Totals :                                1284.01839


    ==================================================================
                            *** End of Report ***
```

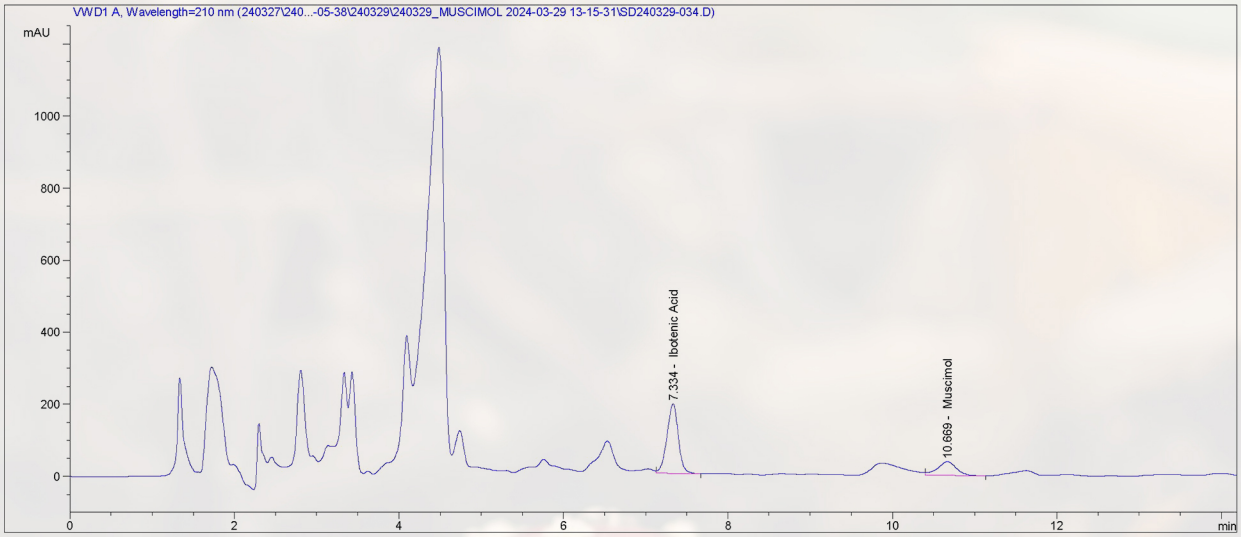

AMU Study 2 Mushroom 26
SD240329-033 (92679) AMU
AMU Study 2 Mushroom 26
SD240329-033 (92679)
___AMU
PharmLabs LLC

Data File C:\CHEM32\... 14-05-38\240329\240329_MUSCIMOL 2024-03-29 13-15-31\SD240329-034.D
Sample Name: SD240329-034

```
    ==================================================================
    Acq. Operator   : BVS                          Seq. Line :  32
    Acq. Instrument : Instrument 1                  Location : Vial 29
    Injection Date  : 3/29/2024 9:00:38 PM               Inj :   1
                                                   Inj Volume : 3.000 µl
    Acq. Method     : C:\CHEM32\1\DATA\240327\240327_MUSCIMOL 2024-03-27 14-05-38\240329\240329_MUSCIMOL 2024-03-29 13-15-31\7 MUSCIMOL.M
    Last changed    : 3/29/2024 1:15:29 PM by BVS
    Analysis Method : C:\CHEM32\1\DATA\240327\240327_MUSCIMOL 2024-03-27 14-05-38\240329\240329_MUSCIMOL 2024-03-29 13-15-31\7 MUSCIMOL.M
                      (Sequence Method)
    Last changed    : 4/1/2024 11:36:42 AM by BVS
                      (modified after loading)  (Results are from a previously saved Batch)

    Sample-related custom fields:

    Name                          |Value
    ------------------------------|---------------------------------------
    Additional Info : Peak(s) manually integrated
    ==================================================================
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                         External Standard Report
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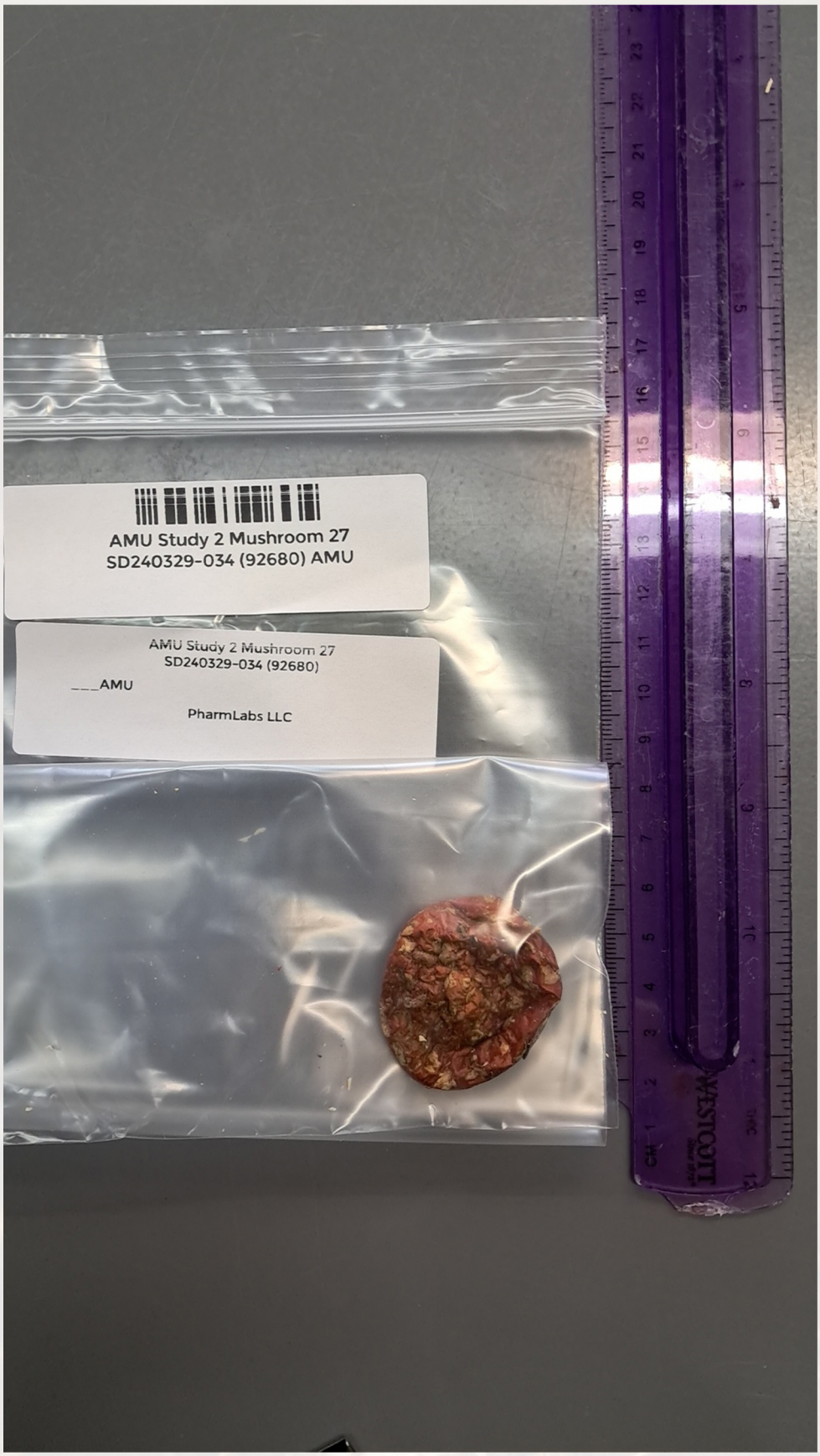
    Sorted By             :      Retention Time
    Calib. Data Modified  :      4/1/2024 11:36:42 AM
    Multiplier:                   :      1.0000
    Dilution:                     :      1.0000
    Use Multiplier & Dilution Factor with ISTDs

    Signal 1: VWD1 A, Wavelength=210 nm

    RetTime Sig Type     Area     Amt/Area    Amount   Grp   Name
     [min]           mAU   *s              mg/L (ppm)
    -------|--|------|----------|----------|----------|--|---------------
      7.334  1 VB     1823.63696 4.99297e-1  910.53713    Ibotenic Acid
     10.669  1 VB      620.64197 1.11358e-1   69.11351    Muscimol

    Totals :                                 979.65064


    ==================================================================
                            *** End of Report ***
```

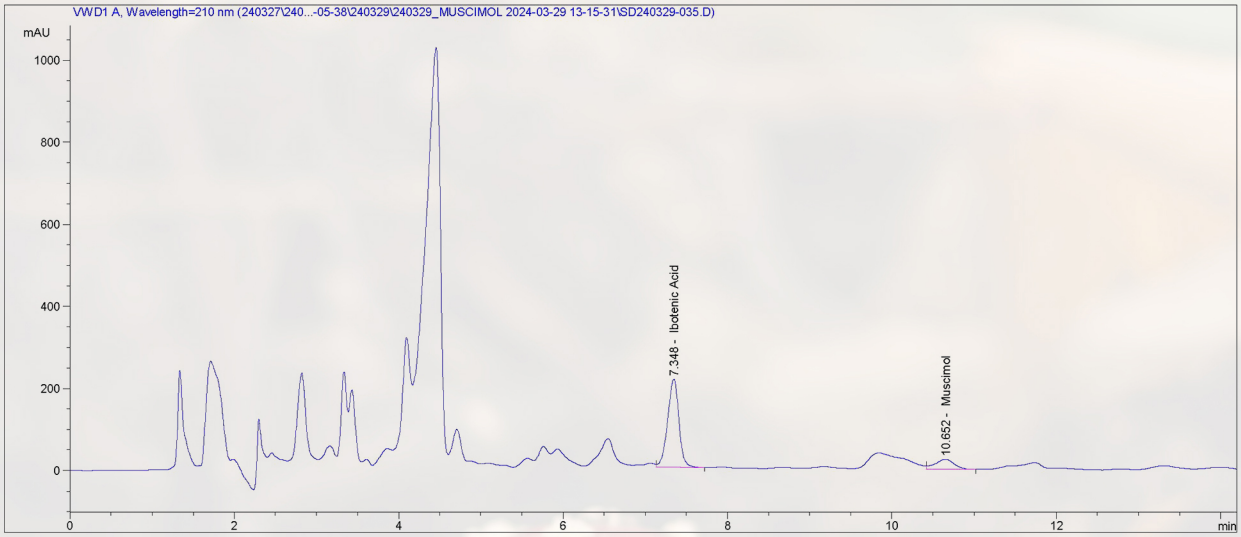

AMU Study 2 Mushroom 27
SD240329-034 (92680) AMU
AMU Study 2 Mushroom 27
SD240329-034 (92680)
___AMU
PharmLabs LLC

Data File C:\CHEM32\... 14-05-38\240329\240329_MUSCIMOL 2024-03-29 13-15-31\SD240329-035.D
Sample Name: SD240329-035

```
    ==================================================================
    Acq. Operator   : BVS                          Seq. Line :  33
    Acq. Instrument : Instrument 1                  Location : Vial 30
    Injection Date  : 3/29/2024 9:15:06 PM               Inj :  1
                                                  Inj Volume : 3.000 µl
    Acq. Method     : C:\CHEM32\1\DATA\240327\240327_MUSCIMOL 2024-03-27 14-05-38\240329\240329_MUSCIMOL 2024-03-29 13-15-31\7 MUSCIMOL.M
    Last changed    : 3/29/2024 1:15:29 PM by BVS
    Analysis Method : C:\CHEM32\1\DATA\240327\240327_MUSCIMOL 2024-03-27 14-05-38\240329\240329_MUSCIMOL 2024-03-29 13-15-31\7 MUSCIMOL.M
                      (Sequence Method)
    Last changed    : 4/1/2024 11:36:42 AM by BVS
                      (modified after loading)  (Results are from a previously saved Batch)

    Sample-related custom fields:

    Name                          |Value
    ------------------------------|-------------------------------------
    Additional Info : Peak(s) manually integrated
    ==================================================================
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                         External Standard Report
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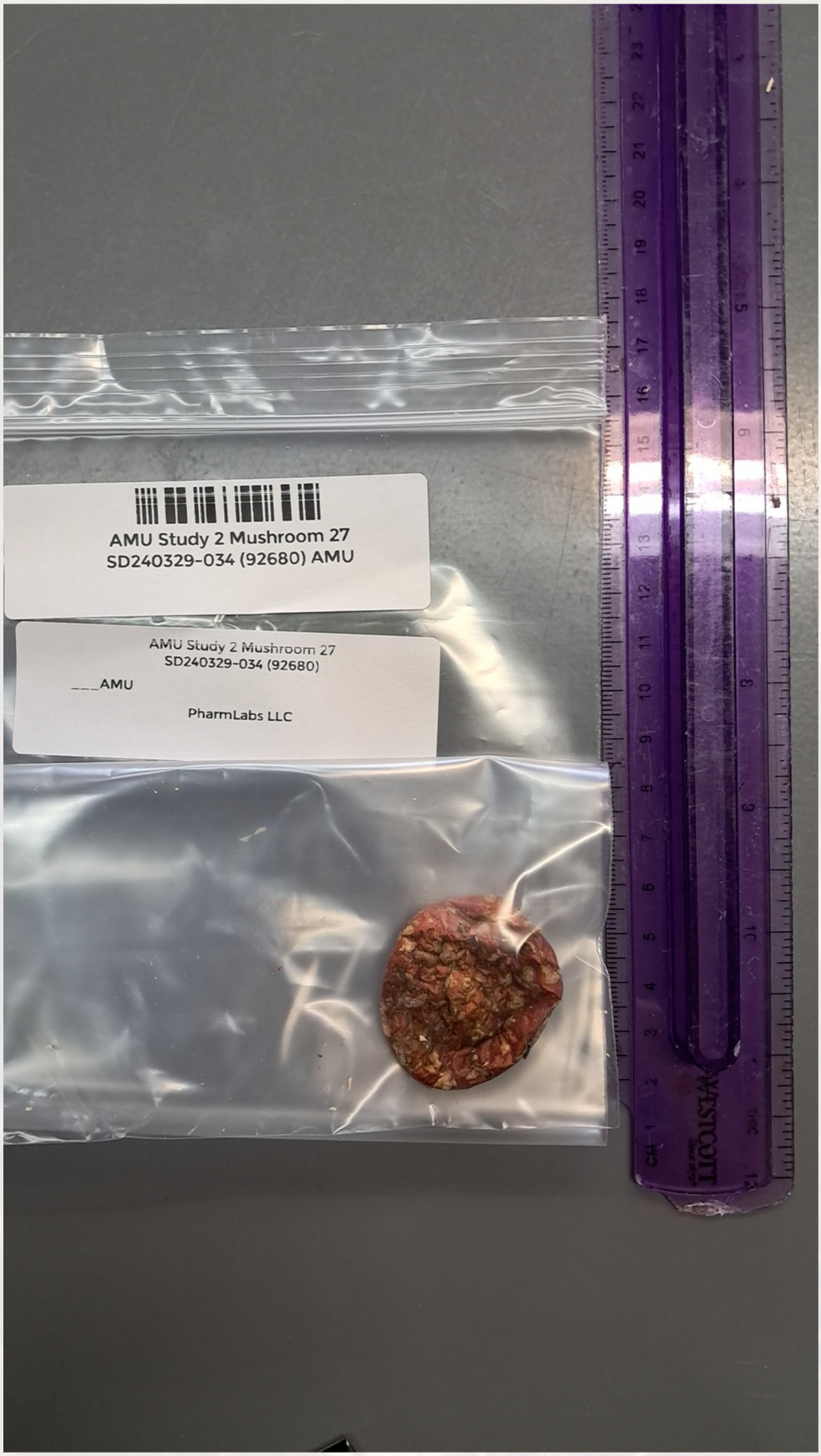
    Sorted By             :      Retention Time
    Calib. Data Modified  :      4/1/2024 11:36:42 AM
    Multiplier:                   :      1.0000
    Dilution:                     :      1.0000
    Use Multiplier & Dilution Factor with ISTDs

    Signal 1: VWD1 A, Wavelength=210 nm

    RetTime Sig Type     Area     Amt/Area    Amount   Grp   Name
     [min]           mAU   *s              mg/L (ppm)
    -------|--|------|----------|----------|----------|--|---------------
      7.348  1 VB     2037.41113 4.99297e-1 1017.27401    Ibotenic Acid
     10.652  1 VB      399.62930 1.11358e-1   44.50196    Muscimol

    Totals :                                1061.77597


    ==================================================================
                            *** End of Report ***
```

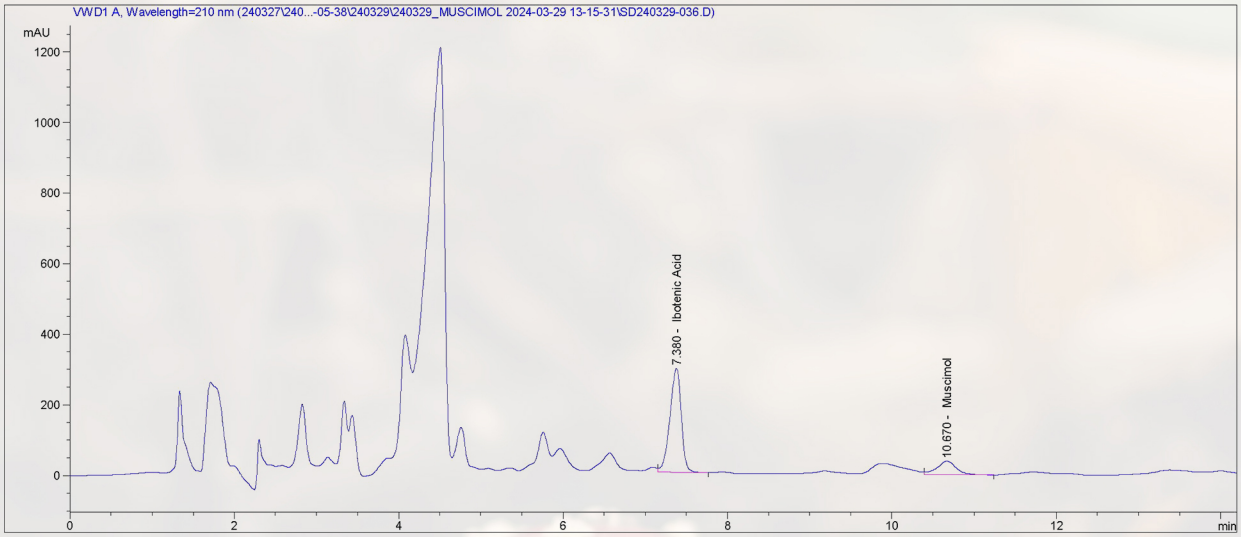

AMU Study 2 Mushroom 27
SD240329-034 (92680) AMU
AMU Study 2 Mushroom 27
SD240329-034 (92680)
___AMU
PharmLabs LLC

Data File C:\CHEM32\... 14-05-38\240329\240329_MUSCIMOL 2024-03-29 13-15-31\SD240329-036.D
Sample Name: SD240329-036

```
    ==================================================================
    Acq. Operator   : BVS                          Seq. Line :  34
    Acq. Instrument : Instrument 1                  Location : Vial 31
    Injection Date  : 3/29/2024 9:29:36 PM               Inj :  1
                                                   Inj Volume : 3.000 µl
    Acq. Method     : C:\CHEM32\1\DATA\240327\240327_MUSCIMOL 2024-03-27 14-05-38\240329\240329_MUSCIMOL 2024-03-29 13-15-31\7 MUSCIMOL.M
    Last changed    : 3/29/2024 1:15:29 PM by BVS
    Analysis Method : C:\CHEM32\1\DATA\240327\240327_MUSCIMOL 2024-03-27 14-05-38\240329\240329_MUSCIMOL 2024-03-29 13-15-31\7 MUSCIMOL.M
                      (Sequence Method)
    Last changed    : 4/1/2024 11:36:42 AM by BVS
                      (modified after loading)  (Results are from a previously saved Batch)

    Sample-related custom fields:

    Name                          |Value
    ------------------------------|---------------------------------------
    Additional Info : Peak(s) manually integrated
    ==================================================================
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                         External Standard Report
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    Sorted By             :      Retention Time
    Calib. Data Modified  :      4/1/2024 11:36:42 AM
    Multiplier:                   :      1.0000
    Dilution:                     :      1.0000
    Use Multiplier & Dilution Factor with ISTDs

    Signal 1: VWD1 A, Wavelength=210 nm

    RetTime Sig Type     Area     Amt/Area    Amount   Grp   Name
     [min]           mAU   *s             mg/L (ppm)
    -------|--|------|----------|----------|----------|--|---------------
      7.380  1 VB     2818.72437 4.99297e-1 1407.38165    Ibotenic Acid
     10.670  1 VB      624.80829 1.11358e-1   69.57746    Muscimol

    Totals :                                1476.95911


    ==================================================================
                            *** End of Report ***
```

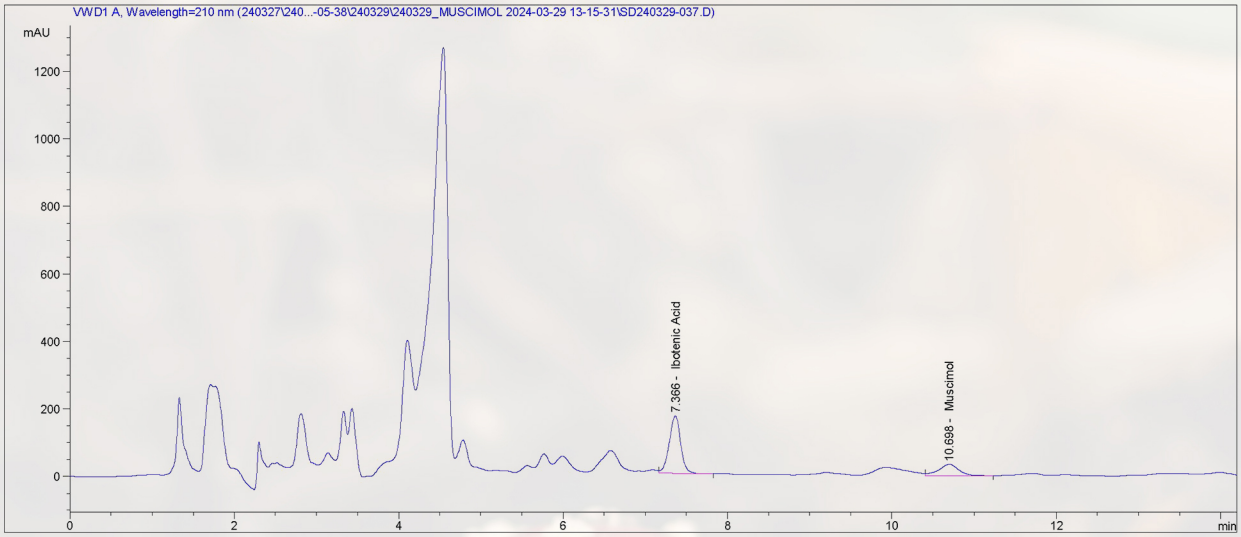

AMU Study 2 Mushroom 29
SD240329-036 (92682) AMU
AMU Study 2 Mushroom 29
SD240329-036 (92682)
___AMU
PharmLabs LLC

Data File C:\CHEM32\... 14-05-38\240329\240329_MUSCIMOL 2024-03-29 13-15-31\SD240329-037.D
Sample Name: SD240329-037

```
    ======================================================================
    Acq. Operator   : BVS                          Seq. Line :  35
    Acq. Instrument : Instrument 1                  Location : Vial 32
    Injection Date  : 3/29/2024 9:44:04 PM               Inj :  1
                                                  Inj Volume : 3.000 µl
    Acq. Method     : C:\CHEM32\1\DATA\240327\240327_MUSCIMOL 2024-03-27 14-05-38\240329\240329_MUSCIMOL 2024-03-29 13-15-31\7 MUSCIMOL.M
    Last changed    : 3/29/2024 1:15:29 PM by BVS
    Analysis Method : C:\CHEM32\1\DATA\240327\240327_MUSCIMOL 2024-03-27 14-05-38\240329\240329_MUSCIMOL 2024-03-29 13-15-31\7 MUSCIMOL.M
                      (Sequence Method)
    Last changed    : 4/1/2024 11:36:42 AM by BVS
                      (modified after loading)  (Results are from a previously saved Batch)

    Sample-related custom fields:

    Name                          |Value
    ------------------------------|---------------------------------------
    Additional Info : Peak(s) manually integrated
    ======================================================================
```




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                         External Standard Report
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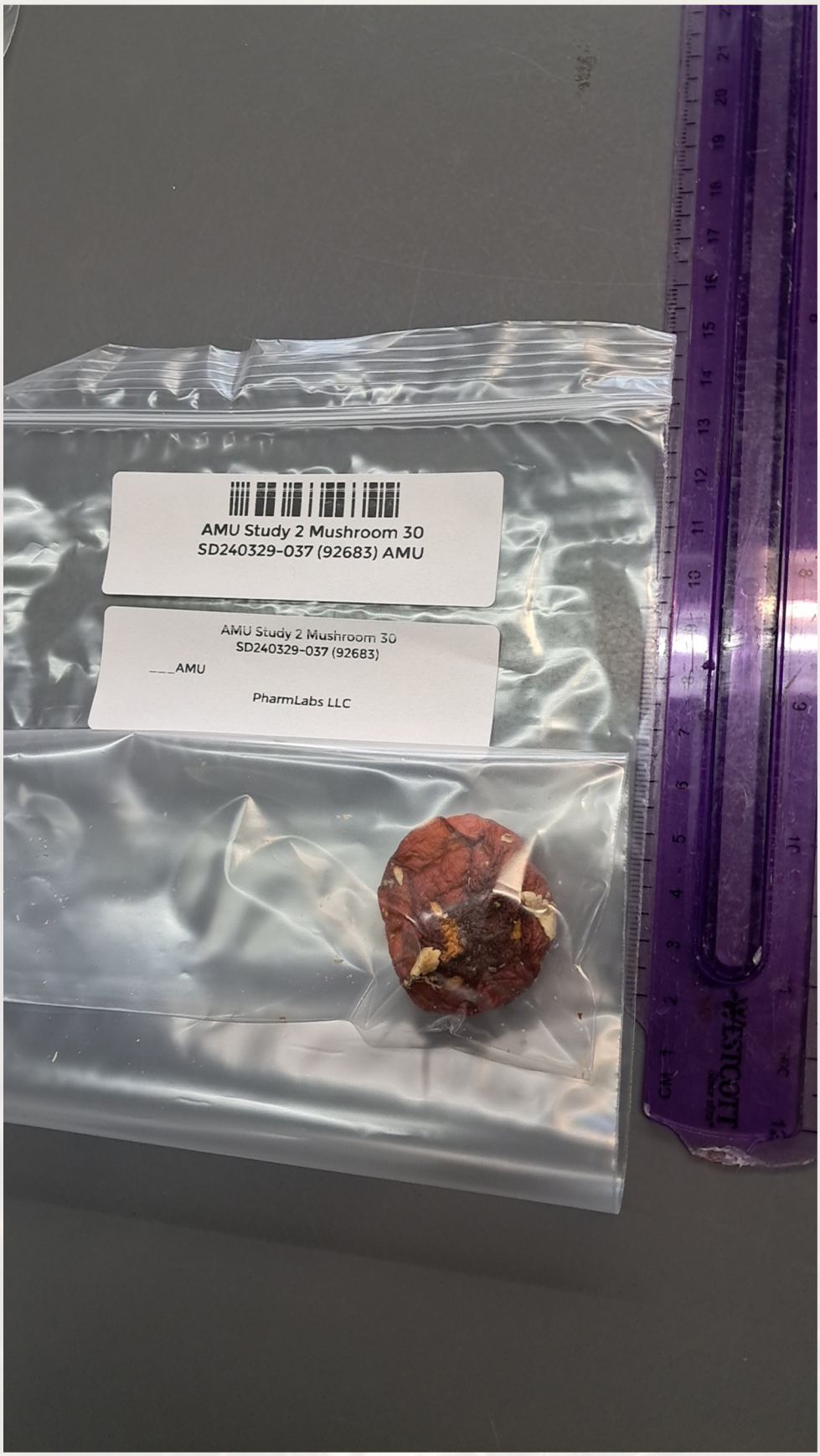
    Sorted By             :      Retention Time
    Calib. Data Modified  :      4/1/2024 11:36:42 AM
    Multiplier:                   :      1.0000
    Dilution:                     :      1.0000
    Use Multiplier & Dilution Factor with ISTDs

    Signal 1: VWD1 A, Wavelength=210 nm

    RetTime Sig Type     Area     Amt/Area    Amount   Grp   Name
     [min]           mAU   *s              mg/L (ppm)
    -------|--|------|----------|----------|----------|--|---------------
      7.366  1 VB     1625.97217 4.99297e-1  811.84362    Ibotenic Acid
     10.698  1 VB      566.55707 1.11358e-1   63.09072    Muscimol

    Totals :                                 874.93433


    ======================================================================
                            *** End of Report ***
```

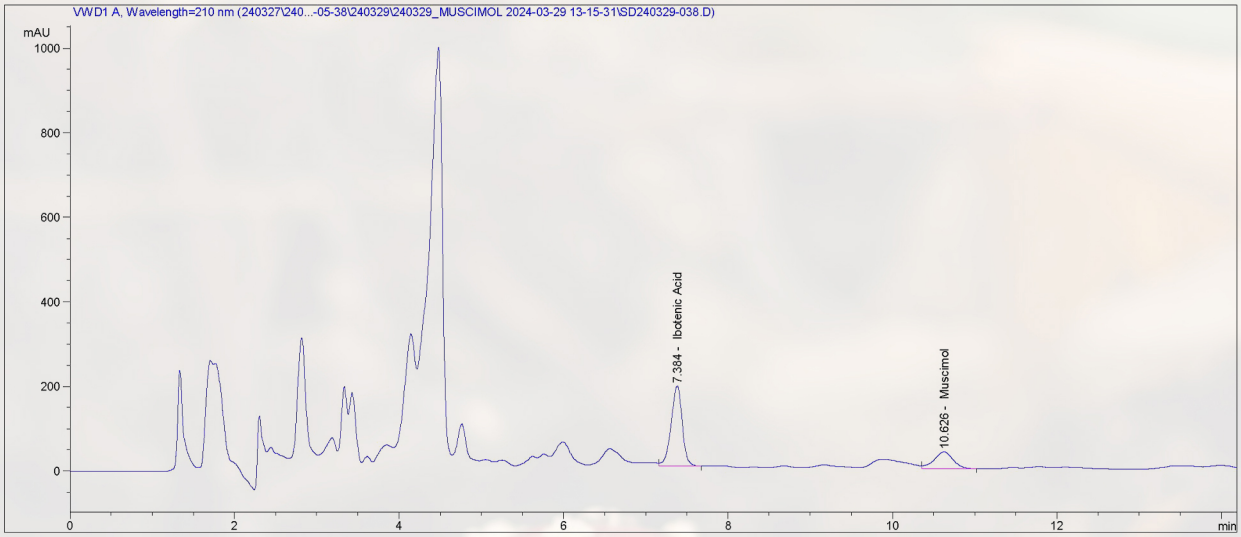

AMU Study 2 Mushroom 30
SD240329-037 (92683) AMU
AMU Study 2 Mushroom 30
SD240329-037 (92683)
___AMU
PharmLabs LLC

Data File C:\CHEM32\... 14-05-38\240329\240329_MUSCIMOL 2024-03-29 13-15-31\SD240329-038.D
Sample Name: SD240329-038

```
    ======================================================================
    Acq. Operator   : BVS                          Seq. Line :  37
    Acq. Instrument : Instrument 1                  Location : Vial 33
    Injection Date  : 3/29/2024 10:13:03 PM              Inj :  1
                                                   Inj Volume : 3.000 µl
    Acq. Method     : C:\CHEM32\1\DATA\240327\240327_MUSCIMOL 2024-03-27 14-05-38\240329\240329_MUSCIMOL 2024-03-29 13-15-31\7 MUSCIMOL.M
    Last changed    : 3/29/2024 1:15:29 PM by BVS
    Analysis Method : C:\CHEM32\1\DATA\240327\240327_MUSCIMOL 2024-03-27 14-05-38\240329\240329_MUSCIMOL 2024-03-29 13-15-31\7 MUSCIMOL.M
                      (Sequence Method)
    Last changed    : 4/1/2024 11:36:42 AM by BVS
                      (modified after loading)  (Results are from a previously saved Batch)

    Sample-related custom fields:

    Name                          |Value
    ------------------------------|---------------------------------------
    Additional Info : Peak(s) manually integrated
    ======================================================================
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                         External Standard Report
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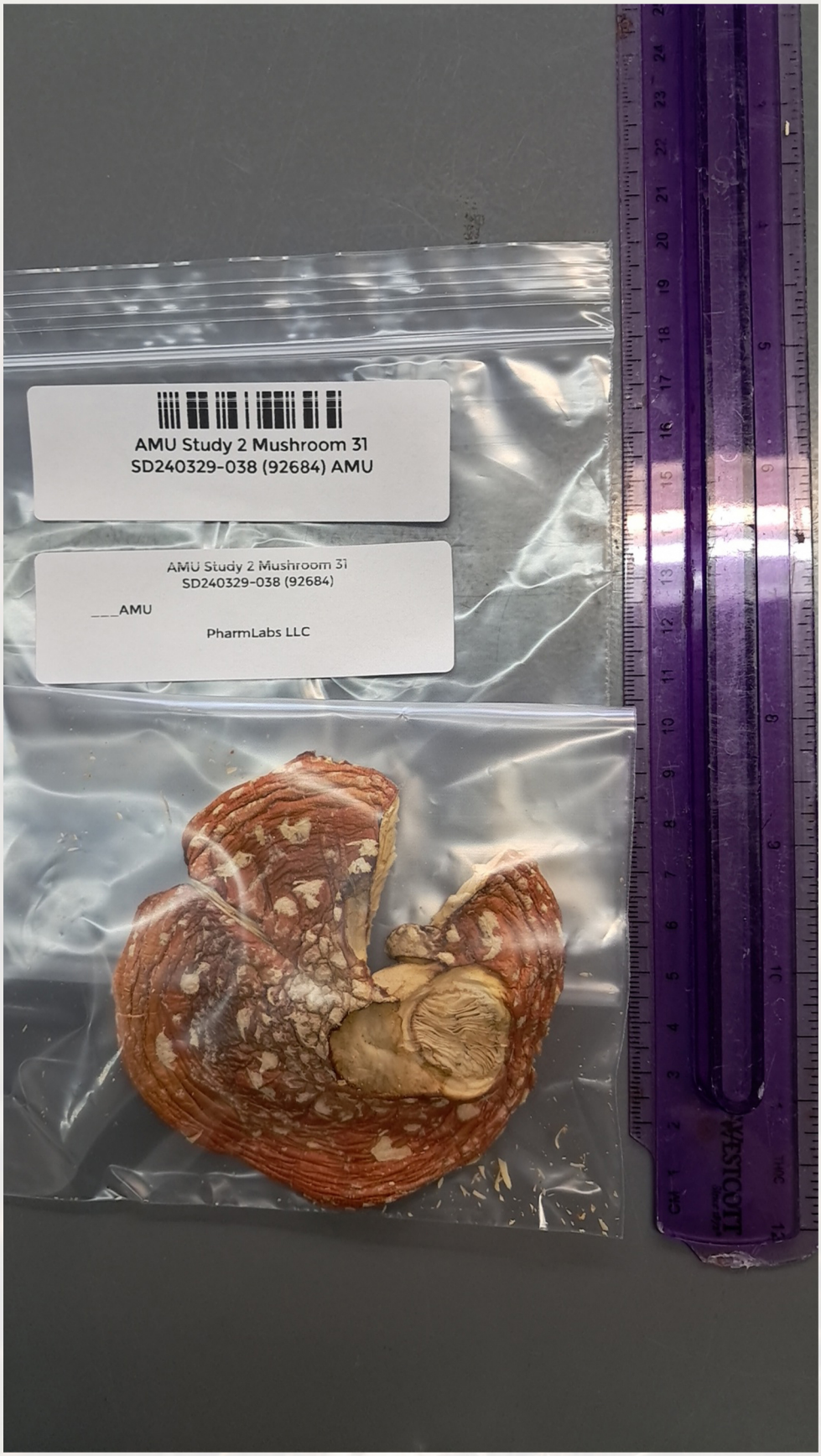
    Sorted By             :      Retention Time
    Calib. Data Modified  :      4/1/2024 11:36:42 AM
    Multiplier:                   :      1.0000
    Dilution:                     :      1.0000
    Use Multiplier & Dilution Factor with ISTDs

    Signal 1: VWD1 A, Wavelength=210 nm

    RetTime Sig Type     Area     Amt/Area    Amount   Grp   Name
     [min]           mAU   *s              mg/L (ppm)
    -------|--|------|----------|----------|----------|--|---------------
      7.384  1 VB     1775.78467 4.99297e-1  886.64460    Ibotenic Acid
     10.626  1 VB      636.89636 1.11358e-1   70.92357    Muscimol

    Totals :                                 957.56817


    ======================================================================
                            *** End of Report ***
```

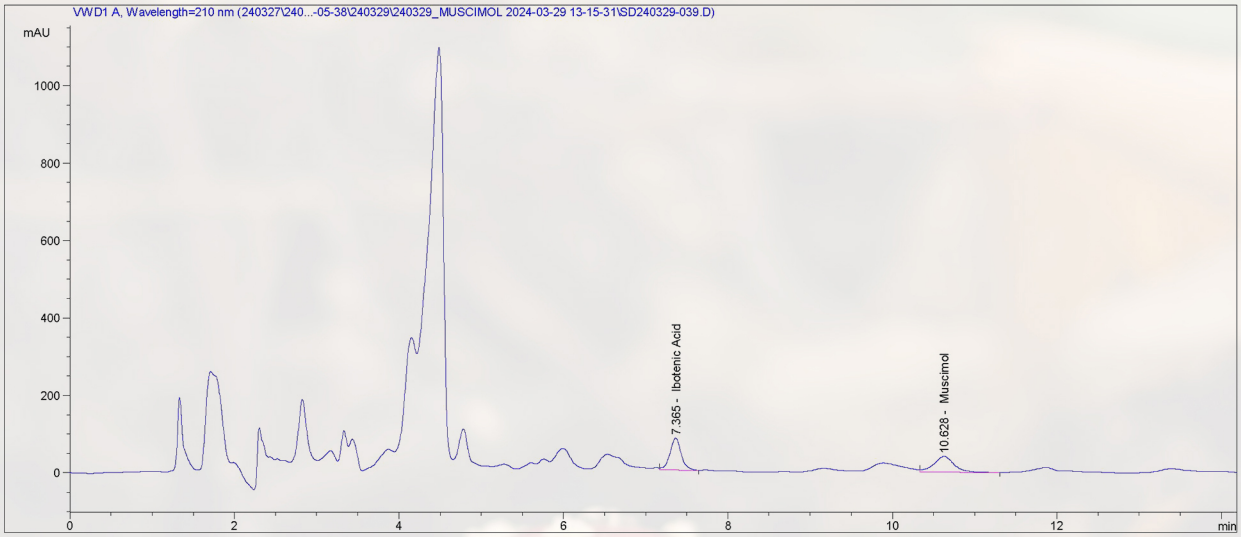

AMU Study 2 Mushroom 31
SD240329-038 (92684) AMU
AMU Study 2 Mushroom 31
SD240329-038 (92684)
___AMU
PharmLabs LLC

Data File C:\CHEM32\... 14-05-38\240329\240329_MUSCIMOL 2024-03-29 13-15-31\SD240329-039.D
Sample Name: SD240329-039

```
    ==================================================================
    Acq. Operator   : BVS                          Seq. Line :  38
    Acq. Instrument : Instrument 1                  Location : Vial 34
    Injection Date  : 3/29/2024 10:27:31 PM              Inj :   1
                                                   Inj Volume : 3.000 µl
    Acq. Method     : C:\CHEM32\1\DATA\240327\240327_MUSCIMOL 2024-03-27 14-05-38\240329\240329_MUSCIMOL 2024-03-29 13-15-31\7 MUSCIMOL.M
    Last changed    : 3/29/2024 1:15:29 PM by BVS
    Analysis Method : C:\CHEM32\1\DATA\240327\240327_MUSCIMOL 2024-03-27 14-05-38\240329\240329_MUSCIMOL 2024-03-29 13-15-31\7 MUSCIMOL.M
                      (Sequence Method)
    Last changed    : 4/1/2024 11:36:42 AM by BVS
                      (modified after loading)  (Results are from a previously saved Batch)

    Sample-related custom fields:

    Name                          |Value
    ------------------------------|---------------------------------------
    Additional Info : Peak(s) manually integrated
    ==================================================================
```




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    ==================================================================
                         External Standard Report
    ==================================================================

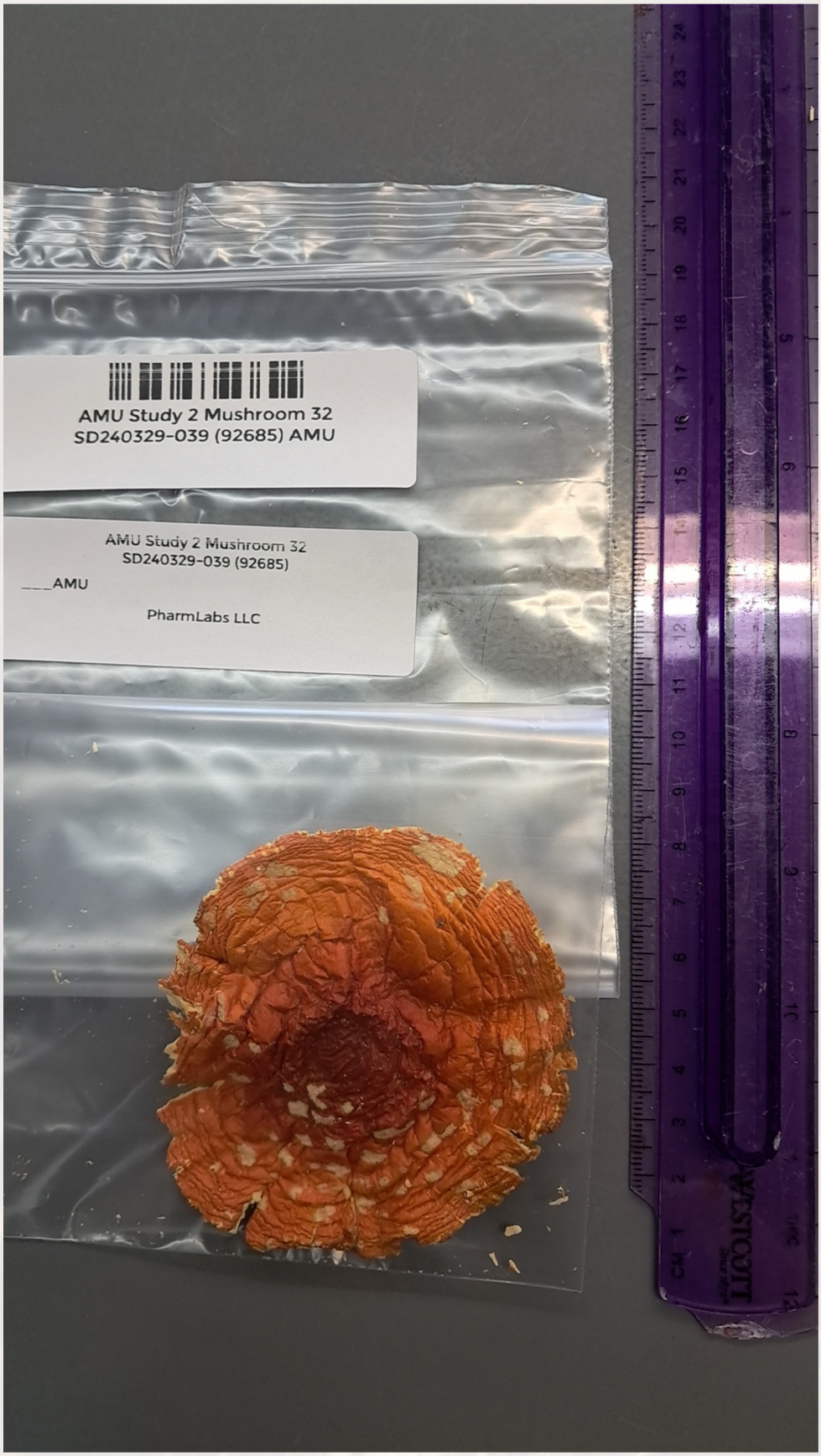
    Sorted By             :      Retention Time
    Calib. Data Modified  :      4/1/2024 11:36:42 AM
    Multiplier:                   :      1.0000
    Dilution:                     :      1.0000
    Use Multiplier & Dilution Factor with ISTDs

    Signal 1: VWD1 A, Wavelength=210 nm

    RetTime Sig Type     Area     Amt/Area    Amount   Grp   Name
     [min]           mAU   *s              mg/L (ppm)
    -------|--|------|----------|----------|----------|--|---------------
      7.365  1 VB      775.82550 4.99297e-1  387.36763    Ibotenic Acid
     10.628  1 VB      734.42535 1.11358e-1   81.78421    Muscimol

    Totals :                                 469.15184


    ==================================================================
                            *** End of Report ***
```

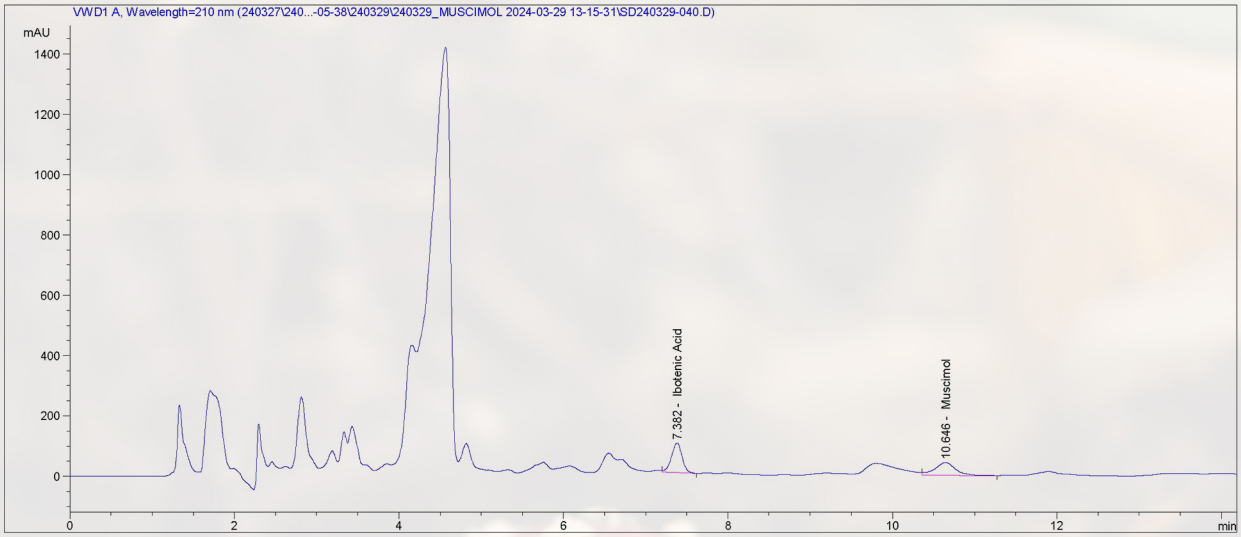

AMU Study 2 Mushroom 32
SD240329-039 (92685) AMU
AMU Study 2 Mushroom 32
SD240329-039 (92685)
___AMU
PharmLabs LLC

Data File C:\CHEM32\... 14-05-38\240329\240329_MUSCIMOL 2024-03-29 13-15-31\SD240329-040.D
Sample Name: SD240329-040

```
    ======================================================================
    Acq. Operator   : BVS                          Seq. Line :  39
    Acq. Instrument : Instrument 1                  Location : Vial 35
    Injection Date  : 3/29/2024 10:42:00 PM              Inj :   1
                                                   Inj Volume : 3.000 µl
    Acq. Method     : C:\CHEM32\1\DATA\240327\240327_MUSCIMOL 2024-03-27 14-05-38\240329\240329_MUSCIMOL 2024-03-29 13-15-31\7 MUSCIMOL.M
    Last changed    : 3/29/2024 1:15:29 PM by BVS
    Analysis Method : C:\CHEM32\1\DATA\240327\240327_MUSCIMOL 2024-03-27 14-05-38\240329\240329_MUSCIMOL 2024-03-29 13-15-31\7 MUSCIMOL.M
                      (Sequence Method)
    Last changed    : 4/1/2024 11:36:42 AM by BVS
                      (modified after loading)  (Results are from a previously saved Batch)

    Sample-related custom fields:

    Name                          |Value
    ------------------------------|---------------------------------------
    Additional Info : Peak(s) manually integrated
    ======================================================================
```




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    ======================================================================
                         External Standard Report
    ======================================================================

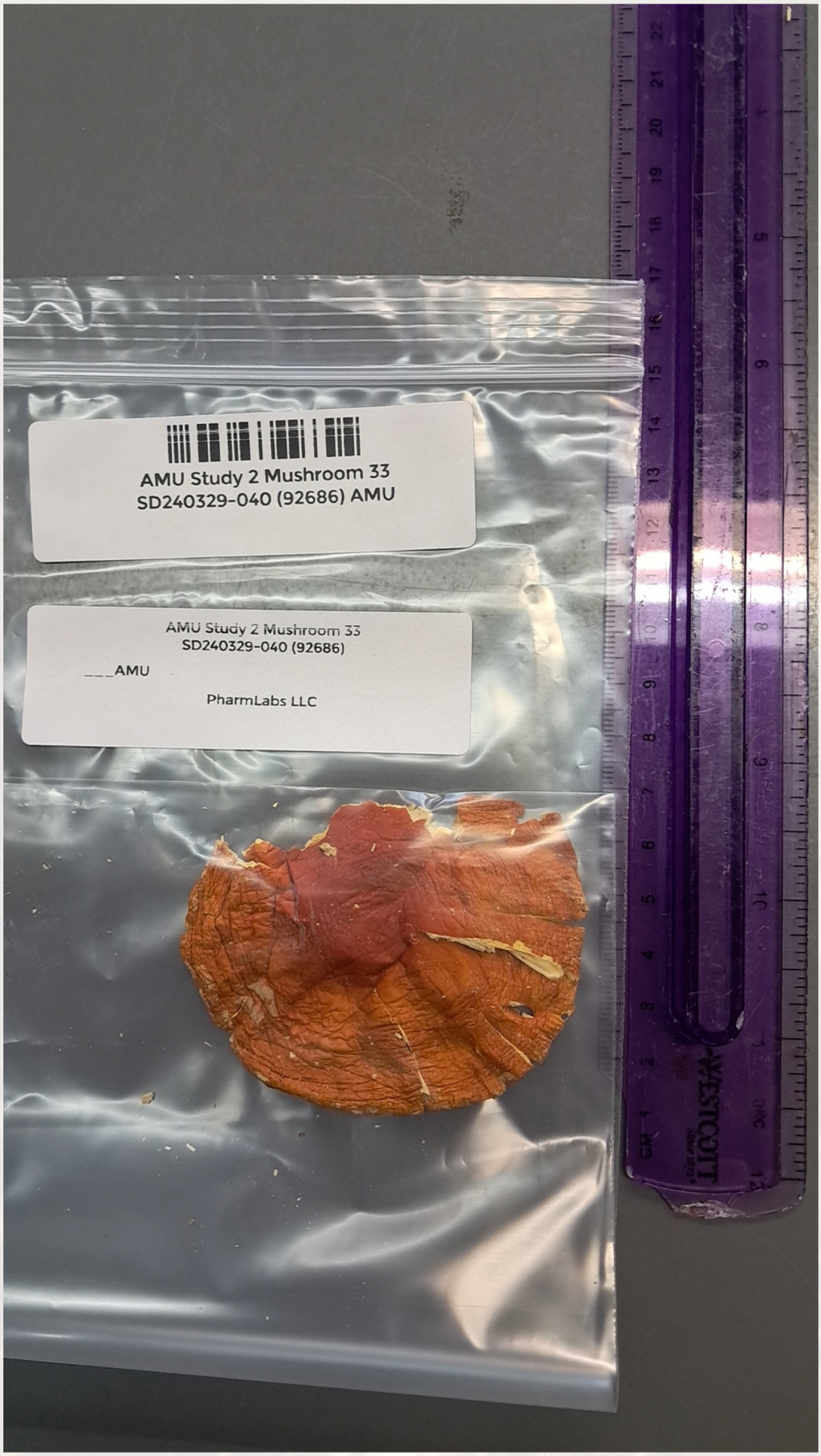
    Sorted By             :      Retention Time
    Calib. Data Modified  :      4/1/2024 11:36:42 AM
    Multiplier:                   :      1.0000
    Dilution:                     :      1.0000
    Use Multiplier & Dilution Factor with ISTDs

    Signal 1: VWD1 A, Wavelength=210 nm

    RetTime Sig Type     Area     Amt/Area    Amount   Grp   Name
     [min]           mAU   *s             mg/L (ppm)
    -------|--|------|----------|----------|----------|--|---------------
      7.382  1 VB      862.00824 4.99297e-1  430.39844    Ibotenic Acid
     10.646  1 VB      742.59131 1.11358e-1   82.69355    Muscimol

    Totals :                                 513.09200


    ======================================================================
                            *** End of Report ***
```

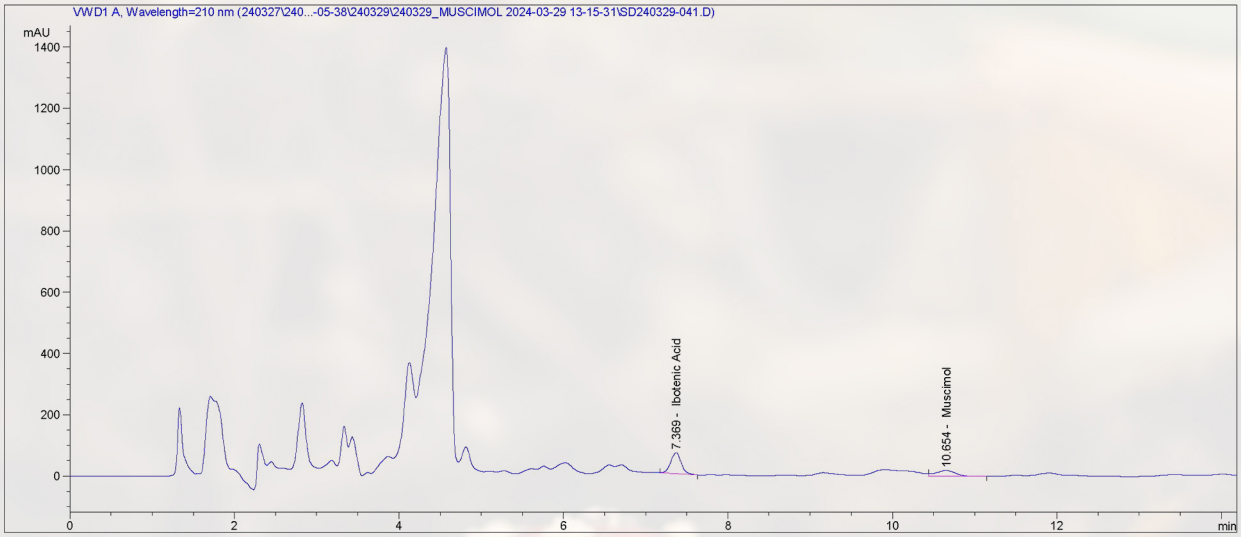

AMU Study 2 Mushroom 33
SD240329-040 (92686) AMU
AMU Study 2 Mushroom 33
SD240329-040 (92686)
___AMU
PharmLabs LLC

Data File C:\CHEM32\... 14-05-38\240329\240329_MUSCIMOL 2024-03-29 13-15-31\SD240329-041.D
Sample Name: SD240329-041

```
    ==================================================================
    Acq. Operator   : BVS                          Seq. Line :  40
    Acq. Instrument : Instrument 1                  Location : Vial 36
    Injection Date  : 3/29/2024 10:56:28 PM              Inj :   1
                                                   Inj Volume : 3.000 µl
    Acq. Method     : C:\CHEM32\1\DATA\240327\240327_MUSCIMOL 2024-03-27 14-05-38\240329\240329_MUSCIMOL 2024-03-29 13-15-31\7 MUSCIMOL.M
    Last changed    : 3/29/2024 1:15:29 PM by BVS
    Analysis Method : C:\CHEM32\1\DATA\240327\240327_MUSCIMOL 2024-03-27 14-05-38\240329\240329_MUSCIMOL 2024-03-29 13-15-31\7 MUSCIMOL.M
                      (Sequence Method)
    Last changed    : 4/1/2024 11:36:42 AM by BVS
                      (modified after loading)  (Results are from a previously saved Batch)

    Sample-related custom fields:

    Name                          |Value
    ------------------------------|-------------------------------------
    Additional Info : Peak(s) manually integrated
    ==================================================================
```




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    ==================================================================
                         External Standard Report
    ==================================================================

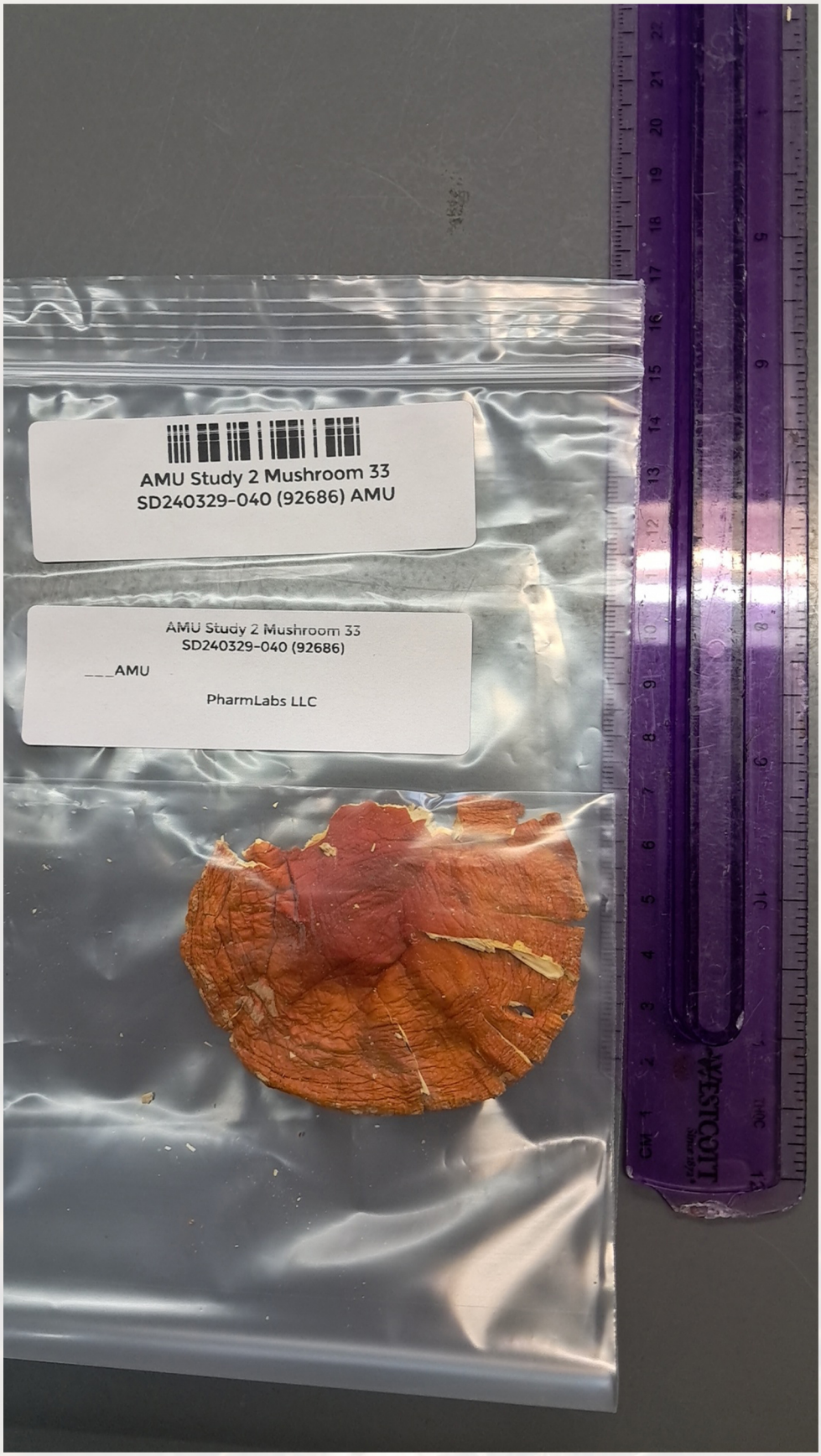
    Sorted By             :      Retention Time
    Calib. Data Modified  :      4/1/2024 11:36:42 AM
    Multiplier:                   :      1.0000
    Dilution:                     :      1.0000
    Use Multiplier & Dilution Factor with ISTDs

    Signal 1: VWD1 A, Wavelength=210 nm

    RetTime Sig Type     Area     Amt/Area    Amount   Grp   Name
     [min]           mAU   *s             mg/L (ppm)
    -------|--|------|----------|----------|----------|--|---------------
      7.369  1 BB      596.30884 4.99297e-1  297.73543    Ibotenic Acid
     10.654  1 VB      292.51102 1.11358e-1   32.57347    Muscimol

    Totals :                                330.30890


    ==================================================================
                           *** End of Report ***
```

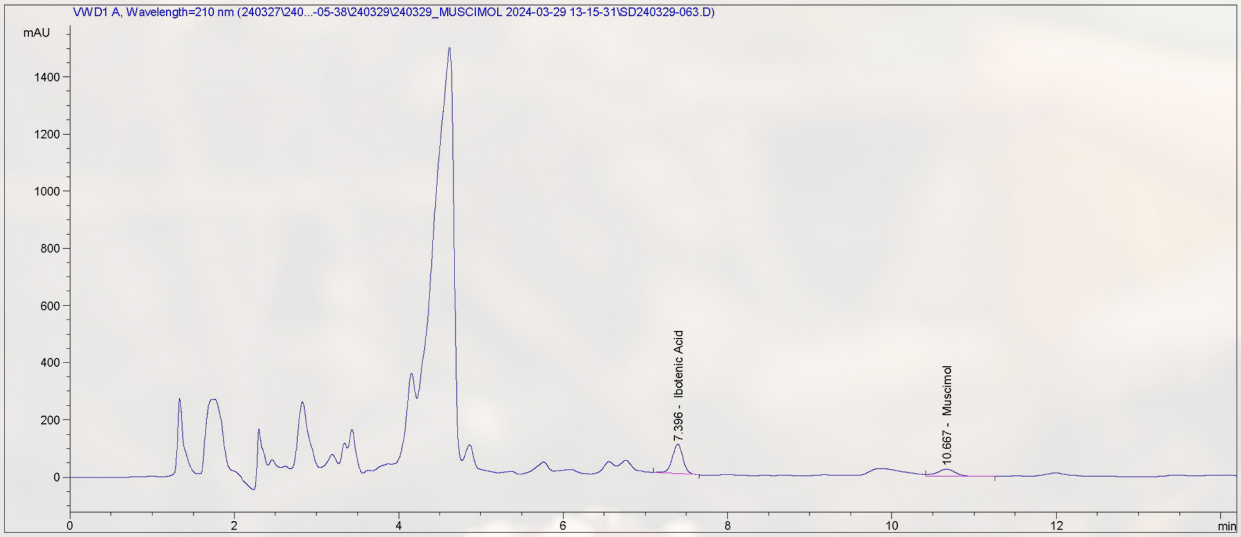

AMU Study 2 Mushroom 33
SD240329-040 (92686) AMU
AMU Study 2 Mushroom 33
SD240329-040 (92686)
___AMU
PharmLabs LLC

Data File C:\CHEM32\... 14-05-38\240329\240329_MUSCIMOL 2024-03-29 13-15-31\SD240329-063.D
Sample Name: SD240329-063

```
    ======================================================================
    Acq. Operator   : BVS                          Seq. Line :  41
    Acq. Instrument : Instrument 1                  Location : Vial 37
    Injection Date  : 3/29/2024 11:10:57 PM              Inj :  1
                                                   Inj Volume : 3.000 µl
    Acq. Method     : C:\CHEM32\1\DATA\240327\240327_MUSCIMOL 2024-03-27 14-05-38\240329\240329_MUSCIMOL 2024-03-29 13-15-31\7 MUSCIMOL.M
    Last changed    : 3/29/2024 1:15:29 PM by BVS
    Analysis Method : C:\CHEM32\1\DATA\240327\240327_MUSCIMOL 2024-03-27 14-05-38\240329\240329_MUSCIMOL 2024-03-29 13-15-31\7 MUSCIMOL.M
                      (Sequence Method)
    Last changed    : 4/1/2024 11:36:42 AM by BVS
                      (modified after loading)  (Results are from a previously saved Batch)

    Sample-related custom fields:

    Name                          |Value
    ------------------------------|---------------------------------------
    Additional Info : Peak(s) manually integrated
    ======================================================================
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    ======================================================================
                        External Standard Report
    ======================================================================

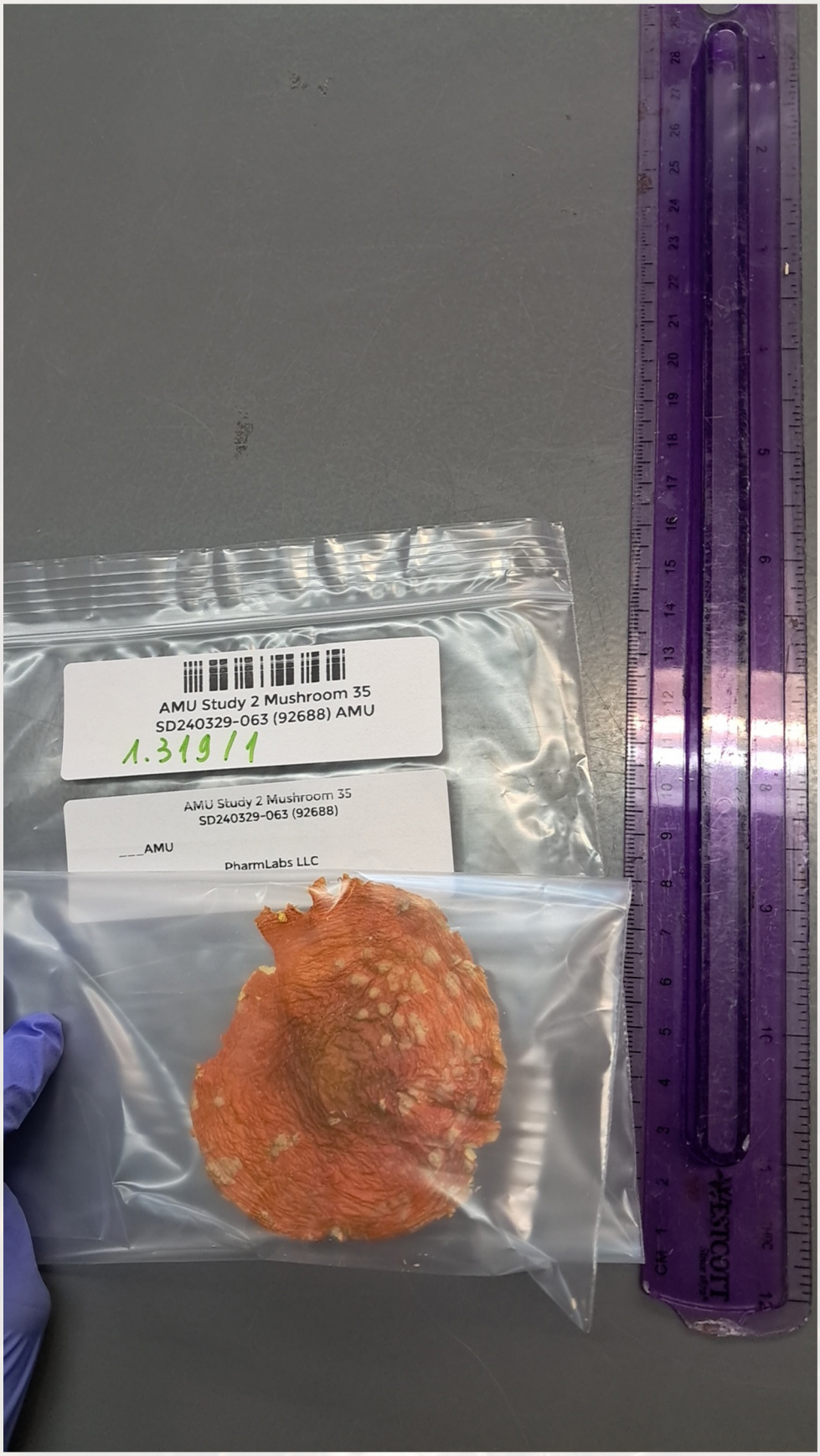
    Sorted By             :      Retention Time
    Calib. Data Modified  :      4/1/2024 11:36:42 AM
    Multiplier:                   :      1.0000
    Dilution:                     :      1.0000
    Use Multiplier & Dilution Factor with ISTDs

    Signal 1: VWD1 A, Wavelength=210 nm

    RetTime Sig Type     Area     Amt/Area    Amount   Grp   Name
     [min]           mAU   *s              mg/L (ppm)
    -------|--|------|----------|----------|----------|--|---------------
      7.396  1 BB      919.06940 4.99297e-1  458.88893    Ibotenic Acid
     10.667  1 VB      379.81314 1.11358e-1   42.29527    Muscimol

    Totals :                                 501.18420


    ======================================================================
                           *** End of Report ***
```


AMU Study 2 Mushroom 35
SD240329-063 (92688) AMU
1.319/1
AMU Study 2 Mushroom 35
SD240329-063 (92688)
___AMU
PharmLabs LLC



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