



# EMERALD TEST

INTER-LAB COMPARISON &  
PROFICIENCY TEST  
877-567-3598  
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Fall 2022 **Water Activity** Humidity Analysis Test - 14

“Water Activity on hemp bud” [#55246]

45 participating laboratories

1 analytes of interest

**Matrix:** Hemp Bud

**Acceptance Criteria:**  $\pm 40\%$  Recovery

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## Contents

<a href="#">Summary of Statistical Data</a>	p. 2
<a href="#">Raw Data Table</a>	p. 3
<a href="#">Percent Recovery Data Table</a>	p. 4
<a href="#">Z-Score Data Table</a>	p. 5
<a href="#">Z-Score Graph</a>	p. 6
<a href="#">Gaussian Normal Distribution Plots</a>	p. 7

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## Summary of Statistical Data

Component	Consensus Mean	Standard Deviation	Deviation %	Assigned Value	Mean Recovery %	# Accepted	% Accepted	# Not Accepted	% Not Accepted	# Outliers	# Participants
Water activity	0.746	0.025	3.333	0.75	99.467	45	100	0	0	2	45



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## Raw Data Table

Lab ID number	Water Activity Aw
5062	0.681
5106	0.7081
5133	0.749
5157	0.76
5183	0.738
5189	0.8276
5190	0.7442
5223	0.7415
5234	0.7481
5244	0.759
5280	0.78
5283	0.7676
5306	0.75
5327	0.7606
5351	0.7583
5355	0.73
5386	0.7586
5392	0.7354
5398	0.6
5413	0.7509
5439	0.735
5442	0.7156
5454	0.755
5455	0.7929
5491	0.7532
5498	0.7524
5504	0.746
5523	0.748
5547	0.7601
5548	0.7443
5555	0.7432
5567	0.7525
5578	0.72
5580	0.7508
5597	0.722

Lab ID number	Water Activity Aw
5598	0.753
5599	0.7612
5608	0.7
5615	0.744
5620	0.678
5621	0.731
5629	0.74
5700	0.8076
5701	0.7744
5830	0.7832



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### Percent Recovery Data Table

Analyst	Water Activity Aw
5062	90.80%
5106	94.41%
5133	99.87%
5157	101.33%
5183	98.40%
5189	110.35%
5190	99.23%
5223	98.87%
5234	99.75%
5244	101.20%
5280	104.00%
5283	102.35%
5306	100.00%
5327	101.41%
5351	101.11%
5355	97.33%
5386	101.15%
5392	98.05%
5398	80.00%
5413	100.12%
5439	98.00%
5442	95.41%
5454	100.67%
5455	105.72%
5491	100.43%
5498	100.32%
5504	99.47%
5523	99.73%
5547	101.35%
5548	99.24%
5555	99.09%
5567	100.33%
5578	96.00%
5580	100.11%
5597	96.27%

Analyst	Water Activity Aw
5598	100.40%
5599	101.49%
5608	93.33%
5615	99.20%
5615	99.20%
5620	90.40%
5621	97.47%
5629	98.67%
5700	107.68%
5701	103.25%
5830	104.43%



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### Z-Score Data Table

Account	Water activity
5062	-2.60
5106	-1.52
5133	0.11
5157	0.55
5183	-0.33
5189	Outlier
5190	-0.08
5223	-0.19
5234	0.08
5244	0.51
5280	1.35
5283	0.86
5306	0.15
5327	0.58
5351	0.49
5355	-0.65
5386	0.50
5392	-0.43
5398	Outlier
5413	0.19
5439	-0.45
5442	-1.22
5454	0.35
5455	1.87
5491	0.28
5498	0.25
5504	-0.01
5523	0.07
5547	0.56
5548	-0.07
5555	-0.12
5567	0.25
5578	-1.04
5580	0.19
5597	-0.96

Account	Water activity
5598	0.27
5599	0.60
5608	-1.84
5615	-0.09
5620	-2.72
5621	-0.61
5629	-0.25
5700	2.46
5701	1.13
5830	1.48



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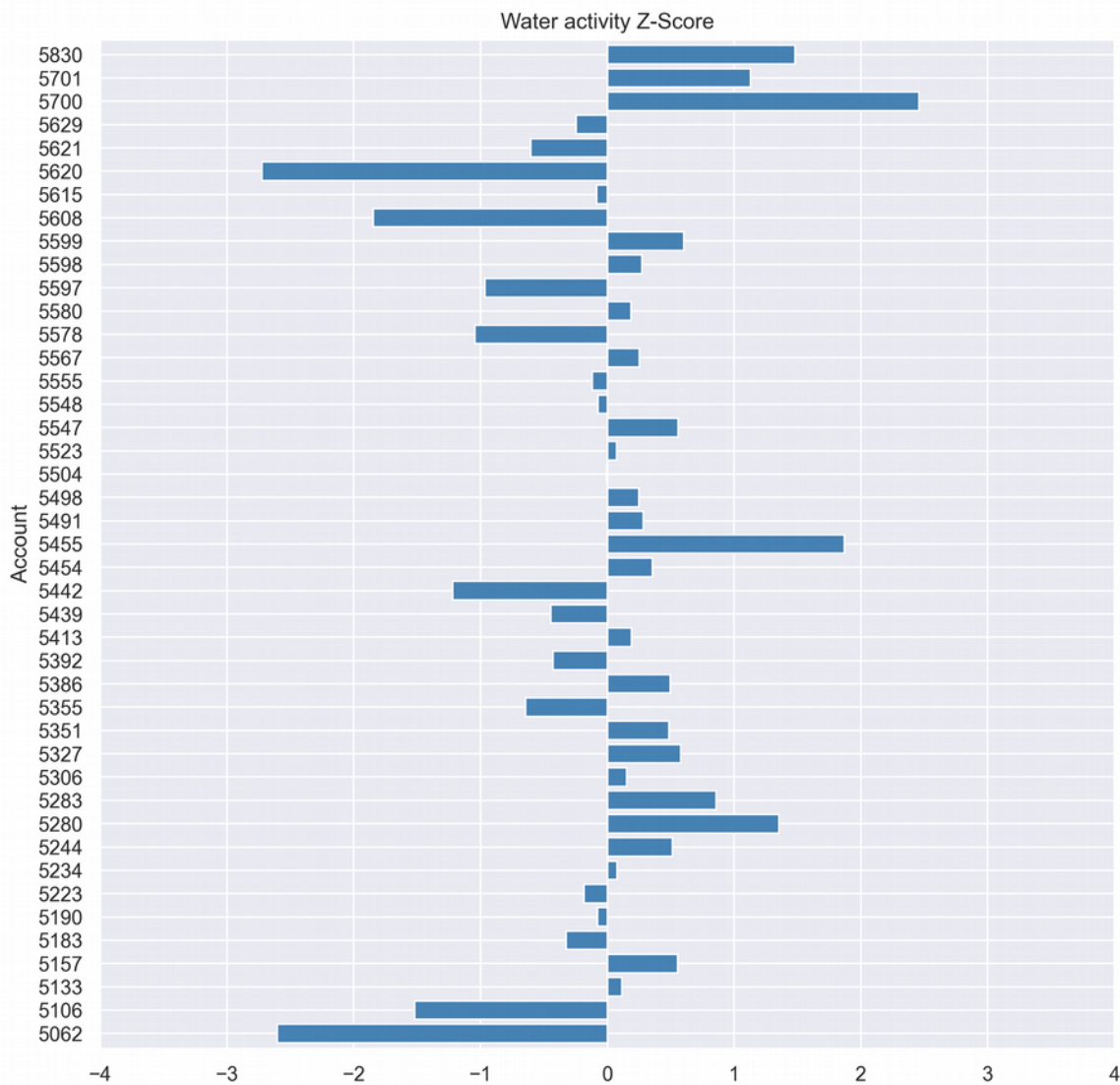
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## Z-Score Graph





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## Gaussian Normal Distribution Plots

