



# EMERALD TEST

INTER-LAB COMPARISON &  
PROFICIENCY TEST  
877-567-3598  
emeraldtest.com



Digamma  
Consulting

www.digammaconsulting.com

Fall 2022 **Water Activity** Humidity Analysis Test - 14

“Water Activity on hemp bud” [#55246]

35 participating laboratories

1 analytes of interest

**Matrix:** Hemp Bud

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

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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
Water activity	0.843	0.017	2.024	0.84	100.357	35	100	0	0	1



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## Raw Data Table

Lab ID number	Water Activity Aw
5317	0.8417
5342	0.832
5355	0.839
5406	0.8671
5450	0.8325
5461	0.8
5470	0.8
5472	0.84
5485	0.848
5494 A	0.8433
5494 B	0.8548
5501	0.86
5510	0.8487
5546	0.82
5567	0.8478
5575	0.825
5585	0.852
5595	0.8389
5627	0.847
5675	0.8687
5716	0.835
5728	0.8482
5736	0.8178
5746	0.856
5759	0.86
5772	0.8566
5776	0.8325
5780	0.7348
5783	0.848
5792	0.8647
5802	0.8545
5804	0.855
5820	0.854
5831	0.84
5990	0.83



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## Percent Recovery Data Table

Analyst	Water Activity Aw
5317	100.20%
5342	99.05%
5355	99.88%
5406	103.23%
5450	99.11%
5461	95.24%
5470	95.24%
5472	100.00%
5485	100.95%
5494 A	100.39%
5494 B	101.76%
5501	102.38%
5510	101.04%
5546	97.62%
5567	100.93%
5575	98.21%
5585	101.43%
5595	99.87%
5627	100.83%
5675	103.42%
5716	99.40%
5728	100.98%
5736	97.36%
5746	101.90%
5759	102.38%
5772	101.98%
5776	99.11%
5780	87.48%
5783	100.95%
5792	102.94%
5802	101.73%
5804	101.79%
5820	101.67%
5831	100.00%
5990	98.81%



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## Z-Score Data Table

Account	Water activity
5317	-0.07
5342	-0.66
5355	-0.24
5406	1.47
5450	-0.63
5461	-2.61
5470	-2.61
5472	-0.18
5485	0.31
5494 A	0.02
5494 B	0.72
5501	1.04
5510	0.35
5546	-1.39
5567	0.30
5575	-1.09
5585	0.55
5595	-0.24
5627	0.25
5675	1.57
5716	-0.48
5728	0.32
5736	-1.52
5746	0.80
5759	1.04
5772	0.83
5776	-0.63
5780	Outlier
5783	0.31
5792	1.32
5802	0.70
5804	0.73
5820	0.67
5831	-0.18
5990	-0.78



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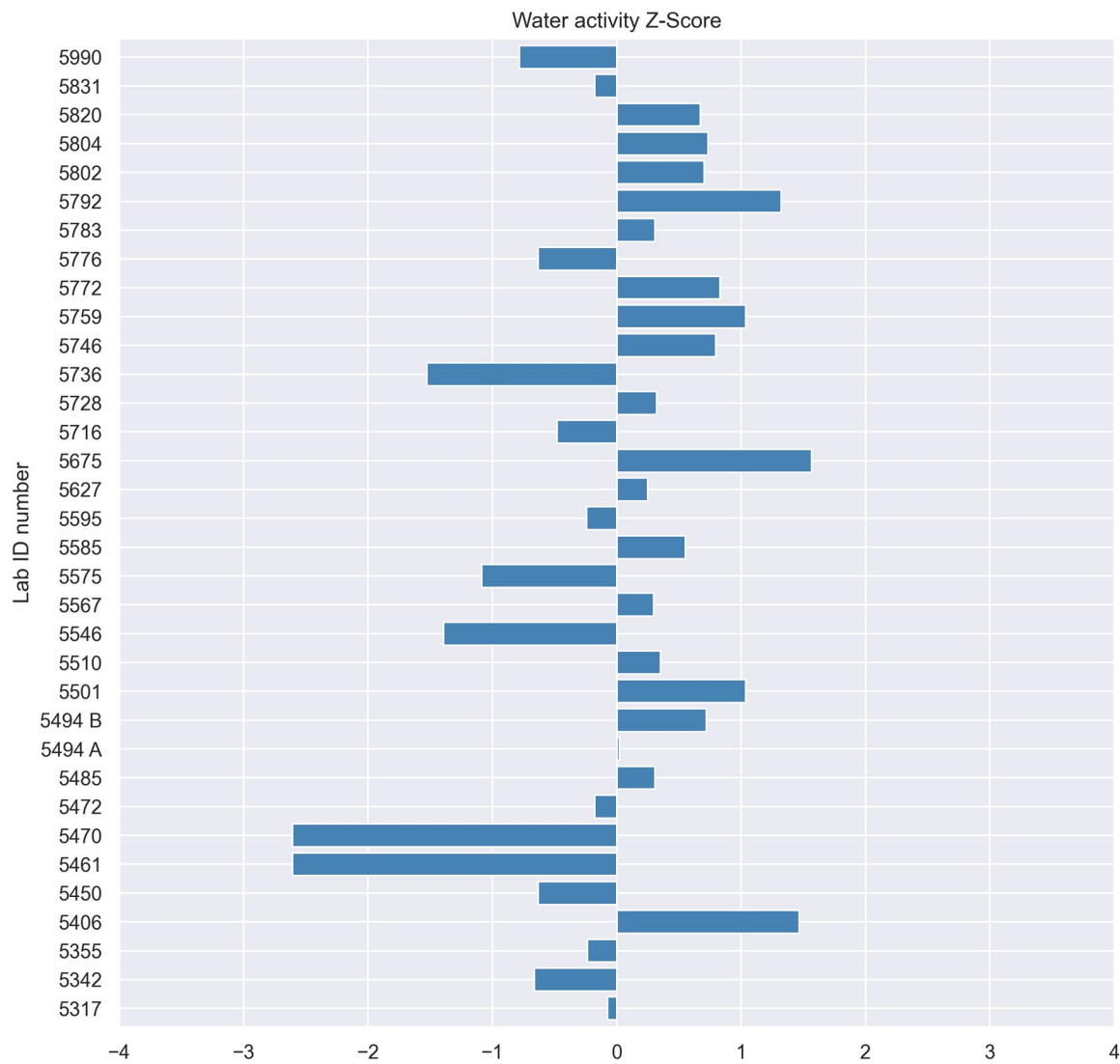
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## Z-Score Graph





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## Gaussian Normal Distribution Plots

