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## **Certificate of Analysis**

**Client Information** 

Sample Information

ARL ID:

Date Received: 7/20/2023 Date Tested: 7/24/2023

Description: TPL Betaine Anhydrous UF (500 GM) EMP General

Lot#: 23071256 Serving Size: 1.5150 g

		Results				
Analysis	Method	†MDL / LOQ	Specification	Results	UOM	Lab ID
Complete Micro Profile, HM (Rapid)	USP, AOAC, ICP- MS					1
Total Plate Count	USP <2021>	100	Record Only	None Detected	cfu's/g	1
Coliforms	AOAC 991.14	10	Record Only	None Detected	cfu's/g	1
E. coli	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Staphylococcus aureus	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Salmonella	USP <2022>	Absent	Record Only	Absent	cfu's/10g	1
Yeast and Mold (Rapid)	AOAC 2014.05	100	Record Record Only	None Detected	cfu's/g	1
Heavy Metals	ARL ICPMS 8.016					1
Arsenic (As)	ARL ICPMS 8.016	0.001	< 10	0.004	mcg/Serving	<b>j</b> 1
Cadmium (Cd)	ARL ICPMS 8.016	0.001	< 4.1	0.002	mcg/Serving	j 1
Mercury (Hg)	ARL ICPMS 8.016	0.001	< 10	0.022	mcg/Serving	j 1
Lead (Pb)	ARL ICPMS 8.016	0.001	< 0.5	0.027	mcg/Serving	<b>j</b> 1

## †Method Detection Limit (MDL):

In microbiological testing, this is the minimum level of growth that can be detected with confidence. If a result is reported as "None Detected", it means any visible growth was below this limit.

## †Limit of Quantitation (LOQ):

In analytical chemistry testing, this is the minimum level of the desired analyte that can be quantified with confidence. If a result is reported as less than LOQ, it means any detected amount was too small to report an exact number.

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Released by: Jacob Teller Date Released: 7/24/2023



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Under accreditation number 77504, ARL is an ISO/IEC 17025:2017 Accredited Laboratory. Uncertainty data for ISO-scoped methods is available upon request. Certificate and scope are also available upon request.

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Released by: Jacob Teller