



Certificate of Analysis

Client Information

BUBS Naturals
1026 N Coast Hwy 101
Encinitas, CA 92024
USA
312-659-6596

Sample Information

Sample ID: 868154
Date Received: 11/21/2025
Description: Hydrate or Die Electrolytes - Lemon
Lot#: 521216101
Expiration Date: 04/2027
Serving Size: 12 g

Results

Analysis	Method	†MDL / LOQ	Specification	Results	UOM	Lab ID
<u>Complete Micro Profile</u>	USP <2021>, USP <2022>, AOAC 991.14		Report Only			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	USP <2021>	100	Record Only	None Detected	cfu's/g	1
Mold	USP <2021>	100	Record Only	None Detected	cfu's/g	1
<u>Heavy Metals</u>	ARL ICPMS 8.016		Report Only			1
Arsenic (As)	ARL ICPMS 8.016	0.001	Record Only	0.017	ppm	1
Cadmium (Cd)	ARL ICPMS 8.016	0.001	Record Only	0.005	ppm	1
Mercury (Hg)	ARL ICPMS 8.016	0.001	Record Only	0.001	ppm	1
Lead (Pb)	ARL ICPMS 8.016	0.001	Record Only	0.004	ppm	1
<u>Mineral Scan</u>	ARL ICPMS 8.016	0.001 ppm	Report Only			1
Aluminum (Al)	ARL ICPMS 8.016	0.001	Record Only	1.951	ppm	1
Antimony (Sb)	ARL ICPMS 8.016	0.001	Record Only	0.003	ppm	1
Arsenic (As)	ARL ICPMS 8.016	0.001	Record Only	0.017	ppm	1





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Beryllium (Be)	ARL ICPMS 8.016	0.001	Record Only	0.038	ppm	1	
Bismuth (Bi)	ARL ICPMS 8.016	0.001	Record Only	< 0.001	ppm	1	
Cadmium (Cd)	ARL ICPMS 8.016	0.001	Record Only	0.005	ppm	1	
Calcium (Ca)	ARL ICPMS 8.016	0.001	Record Only	419.204	ppm	1	
Chromium (Cr)	ARL ICPMS 8.016	0.001	Record Only	0.055	ppm	1	
Copper (Cu)	ARL ICPMS 8.016	0.001	Record Only	0.445	ppm	1	
Germanium (Ge)	ARL ICPMS 8.016	0.001	Record Only	0.009	ppm	1	
Iron (Fe)	ARL ICPMS 8.016	0.001	Record Only	1.566	ppm	1	
Lead (Pb)	ARL ICPMS 8.016	0.001	Record Only	0.004	ppm	1	
Magnesium (Mg)	ARL ICPMS 8.016	0.001	Record Only	4546.121	ppm	1	
Manganese (Mn)	ARL ICPMS 8.016	0.001	Record Only	0.233	ppm	1	
Mercury (Hg)	ARL ICPMS 8.016	0.001	Record Only	0.001	ppm	1	
Molybdenum (Mo)	ARL ICPMS 8.016	0.001	Record Only	0.006	ppm	1	
Nickel (Ni)	ARL ICPMS 8.016	0.001	Record Only	0.198	ppm	1	
Phosphorus (P)	ARL ICPMS 8.016	0.001	Record Only	118.169	ppm	1	
Potassium (K)	ARL ICPMS 8.016	0.001	Record Only	21574.359	ppm	1	
Selenium (Se)	ARL ICPMS 8.016	0.001	Record Only	0.229	ppm	1	
Silver (Ag)	ARL ICPMS 8.016	0.001	Record Only	0.001	ppm	1	
Sodium (Na)	ARL ICPMS 8.016	0.001	Record Only	63781.975	ppm	1	
Tin (Sn)	ARL ICPMS 8.016	0.001	Record Only	0.013	ppm	1	
Vanadium (V)	ARL ICPMS 8.016	0.001	Record Only	0.002	ppm	1	
Zinc (Zn)	ARL ICPMS 8.016	0.001	Record Only	3.101	ppm	1	
Barium (Ba)	ARL ICPMS 8.016	0.001	Record Only	0.234	ppm	1	
Boron (B)	ARL ICPMS 8.016	0.001	Record Only	3.913	ppm	1	
Thallium (Tl)	ARL ICPMS 8.016	0.001	Record Only	0.342	ppm	1	
<u>Nutritional Facts Analysis (2016)</u>			Report Only			1	
Total Calories	Calculation	0.1	Record Only	37.9	Cal/Serving	1	
Fat, Total (NLEA)	AOAC 996.01	0.024	Record Only	< 0.024	g/Serving	1	





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Saturated Fat	AOAC 996.01	0.024	Record Only	< 0.024	g/Serving	1
Trans Fat	AOAC 996.01	0.024	Record Only	< 0.024	g/Serving	1
Cholesterol	ARL 2.038	0.012	Record Only	< 0.012	mg/Serving	1
Carbohydrates	Calculation	0.1	Record Only	9.1	g/Serving	1
Dietary Fiber (AOAC)	AOAC 991.43 (mod.)	0.50	Record Only	1.0	g/100g	17
Sugars, Total	ARL 2.017	0.5	Record Only	513.8 ^{Note 1}	mg/g	1
Protein	AOAC 990.03 - Dumas	0.02	Record Only	0.36 ^{Note 2}	g/Serving	1
<u>Vitamin D, Total</u>	ARL 2.070	120	Record Only	< 120 ^{Note 3}	mcg/Serving	1
Vitamin D2 (Ergocalciferol, HPLC)	ARL 2.070	120	Record Only	< 120	mcg/Serving	1
Vitamin D3 (Cholecalciferol, HPLC)	ARL 2.070	120	Record Only	< 120	mcg/Serving	1
Sodium (Na)	ARL ICPMS 8.016	0.001	Record Only	63781.975	ppm	1
Calcium (Ca)	ARL ICPMS 8.016	0.001	Record Only	419.204	ppm	1
Iron (Fe)	ARL ICPMS 8.016	0.001	Record Only	1.566	ppm	1
Potassium (K)	ARL ICPMS 8.016	0.001	Record Only	21574.359	ppm	1
Ash	ARL 2.056	0.01	Record Only	20.54	%	1
Loss on Drying	ARL 2.004	0.1	Record Only	0.6	%	1
<u>Allergen Profile</u>	ELISA					1
Gluten Allergens	ELISA	5	Record Only	<5	ppm	1
Peanut Allergens (ELISA)	ELISA	0.8	Record Only	<0.8	ppm	1
Total Milk Allergens (ELISA)	ELISA	2.5	Record Only	<2.5	ppm	1
Egg Allergens (ELISA)	ELISA	0.5	Record Only	<0.5	ppm	1
Soy Allergens (ELISA)	ELISA	2.5	Record Only	<2.5	ppm	1
Crustacean Allergen (ELISA)	ELISA	2.5	Record Only	<2.5	ppm	1
Fish Allergens (Histamine)	ELISA	2.5	Record Only	<2.5	ppm	1
Sesame Allergens (ELISA)	ELISA	2.5	Record Only	<2.5	ppm	1
Glyphosate (HPLC)	ARL 2.073	0.4	Record Only	< 0.4	%	1

Notes:



Results

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1. Sugars, Total consists of the total amount of Fructose, Dextrose/Glucose, Sucrose, Maltose, and Lactose. 2. This result was calculated using factor 6.25, unless otherwise specified. 3. ARL vitamin results are reported as the form of the vitamin specified in the parentheses of the analysis name.						

†Method Detection Limit (MDL):

In microbiologic 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.

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





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Results

Analysis	Method	†MDL / LOQ	Specification	Results	UOM	Lab ID
<u>Residual Solvents (USP 467)</u>	ARL 2.065			Note 1		1
<u>Residual Solvents Class 1 (USP 467)</u>	ARL 2.065					1
1,1-Dichloroethylene	ARL 2.065	1.0	Record Only	< 1.0	ppm	1
1,1,1-Trichloroethane	ARL 2.065	1.0	Record Only	< 1.0	ppm	1
1,2-Dichloroethane	ARL 2.065	1.0	Record Only	< 1.0	ppm	1
Benzene	ARL 2.065	1.0	Record Only	< 1.0	ppm	1
Carbon Tetrachloride	ARL 2.065	1.0	Record Only	< 1.0	ppm	1
<u>Residual Solvents Class 2 A+B (USP 467)</u>	ARL 2.065					1
1,2-Dimethoxyethane	ARL 2.065	25.0	Record Only	< 25.0	ppm	1
1,4-Dioxane	ARL 2.065	95.5	Record Only	< 95.5	ppm	1
2-Hexanone (Methylbutylketone)	ARL 2.065	12.5	Record Only	< 12.5	ppm	1
1,2-Dichloroethylene	ARL 2.065	234.0	Record Only	< 234.0	ppm	1
Trans-1,2-Dichloroethylene	ARL 2.065	234.0	Record Only	< 234.0	ppm	1
Cis-1,2-Dichloroethylene	ARL 2.065	234.0	Record Only	< 234.0	ppm	1
Acetonitrile	ARL 2.065	103.0	Record Only	< 103.0	ppm	1
Chlorobenzene	ARL 2.065	90.0	Record Only	< 90.0	ppm	1
Chloroform (Trichloromethane)	ARL 2.065	15.0	Record Only	< 15.0	ppm	1
Cumene (Isopropylbenzene)	ARL 2.065	17.5	Record Only	< 17.5	ppm	1





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Cyclohexane	ARL 2.065	975.0	Record Only	< 975.0	ppm	1
Dichloromethane (Methylene Chloride)	ARL 2.065	151.0	Record Only	< 151.0	ppm	1
N-Hexane	ARL 2.065	61.2	Record Only	< 61.2	ppm	1
Methanol (Class 2)	ARL 2.065	751.0	Record Only	< 751.0	ppm	1
Methylcyclohexane	ARL 2.065	296.5	Record Only	< 296.5	ppm	1
Nitromethane	ARL 2.065	12.5	Record Only	< 12.5	ppm	1
Pyridine	ARL 2.065	50.0	Record Only	< 50.0	ppm	1
Tetrahydrofuran	ARL 2.065	181.5	Record Only	< 181.5	ppm	1
Tetralin	ARL 2.065	21.0	Record Only	< 21.0	ppm	1
Trichloroethylene	ARL 2.065	20.0	Record Only	< 20.0	ppm	1
Toluene	ARL 2.065	223.0	Record Only	< 223.0	ppm	1
Total Xylenes	ARL 2.065	750.0	Record Only	< 750.0	ppm	1
Ethylbenzene	ARL 2.065	750.0	Record Only	< 750.0	ppm	1
m,p-Xylene	ARL 2.065	750.0	Record Only	< 750.0	ppm	1
o-Xylene	ARL 2.065	750.0	Record Only	< 750.0	ppm	1
<u>Residual Solvents Class 3 A+B (USP 467)</u>	ARL 2.065					1
Loss on Drying	ARL 2.004	0.1	Record Only	0.7	%	1
1-Butanol	ARL 2.065	500	Record Only	< 500	ppm	1
1-Pentanol	ARL 2.065	500	Record Only	< 500	ppm	1
1-Propanol (n-Propanol)	ARL 2.065	500	Record Only	< 500	ppm	1
2-Butanol	ARL 2.065	500	Record Only	< 500	ppm	1
2-Butanone (Methylethyl Ketone)	ARL 2.065	500	Record Only	< 500	ppm	1
3-Methyl-1-Butanol (Isoamyl Alcohol)	ARL 2.065	500	Record Only	< 500	ppm	1
4-Methyl-2-Pentanone (Methylisobutyl Ketone)	ARL 2.065	500	Record Only	< 500	ppm	1
Acetic Acid	ARL 2.065	3490	Record Only	< 3490	ppm	1
Acetone	ARL 2.065	500	Record Only	< 500	ppm	1
Anisole	ARL 2.065	500	Record Only	< 500	ppm	1





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Butyl Acetate (Acetic Acid Butyl Ester)	ARL 2.065	500	Record Only	< 500	ppm	1	
Diethyl Ether (Ethyl Ether)	ARL 2.065	500	Record Only	< 500	ppm	1	
Dimethyl Sulfoxide	ARL 2.065	500	Record Only	< 500	ppm	1	
Ethanol (Class 3)	ARL 2.065	500	Record Only	< 500	ppm	1	
Ethyl Acetate	ARL 2.065	500	Record Only	< 500	ppm	1	
Ethyl Formate	ARL 2.065	500	Record Only	< 500	ppm	1	
Formic Acid	ARL 2.065	3620	Record Only	< 3620	ppm	1	
Heptane	ARL 2.065	500	Record Only	< 500	ppm	1	
Isobutyl Acetate	ARL 2.065	500	Record Only	< 500	ppm	1	
Isobutanol (2-Methyl-1-Propanol)	ARL 2.065	500	Record Only	< 500	ppm	1	
Isopropanol (2-Propanol, Class 3)	ARL 2.065	500	Record Only	< 500	ppm	1	
Isopropyl Acetate	ARL 2.065	500	Record Only	< 500	ppm	1	
Methyl Acetate	ARL 2.065	500	Record Only	< 500	ppm	1	
Methyl Tert-butyl Ether	ARL 2.065	500	Record Only	< 500	ppm	1	
n-Pentane	ARL 2.065	500	Record Only	< 500	ppm	1	
Propyl Acetate	ARL 2.065	500	Record Only	< 500	ppm	1	

Notes:

1. Package following USP <467> edition 2020

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