



Certificate of Analysis

Product: ConcenTrace® Liquid Minerals
Country of Origin: United States of America

Lot Number: 52010

Manufacture Date: 05/2010

Date Testing Finalized: 07/20/2010

Best Sold By: 05/2015

Mineral Analysis*

***See Page Two for Full Analysis Results and Specifications**

Contaminant Analysis

<u>Contaminant Group</u>	<u>Method</u>	<u>Specification</u>	<u>Lot Results</u>
Pesticides	EPA SW846 Method 8081	Less than U.S. EPA MCL	Conform
Polychlorinated Biphenyl	EPA SW846 Method 8082	Less than U.S. EPA MCL	Conform
Herbicides	EPA SW846 Method 8151	Less than U.S. EPA MCL	Conform
Volatiles	EPA SW846 Method 8260	Less than U.S. EPA MCL	Conform
Semi-Volatiles	EPA SW846 Method 8270	Less than U.S. EPA MCL	Conform

Physical Data

<u>Physical Description</u>	<u>Method</u>	<u>Specification</u>	<u>Lot Results</u>
Color	Visual	Light Yellow	Light Yellow
pH	Electric pH Meter	5.2 - 6.2	5.83
Specific Gravity	Gravimetric	1.24 - 1.37	1.297
Refractive Index	Refractometer	47 - 52 Degree Brix	48.5 Degree Brix

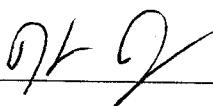
Microbiological Profile

<u>Microbe</u>	<u>Method</u>	<u>Specification</u>	<u>Lot Results</u>
Standard Plate Count	AOAC966.23	Less than 1,000 CFU/g	<10 CFU/g
Total Coliform	AOAC991.14	Less than 100 CFU/g	<10 CFU/g
E. Coli	AOAC991.14	Less than 100 CFU/g	<10 CFU/g
Enterobacteriaceae	3M	<10 CFU/g	<10 CFU/g
Staphylococcus Aureus	AOAC 2003.07	<10 CFU/g	<10 CFU/g
Yeast & Mold	FDA BAM 8th Ed.	<10 <10 CFU/g	<10 <10 CFU/g

*Negative represents less than 1 cfu/mL.

The date and information herein are believed to be correct based on our testing methods; however, we do not guarantee the duplication of these results by a third party. The prospective user determines the suitability of the product for their intended use. As testing improves, the specifications, averages, and the best sold by date may change without notice. Some of the best sold by date of the product may be different from the date above according to the laws and regulations of each county.

Signature below confirms review of testing by third party laboratory to be found acceptable and meets high expectations for contract laboratories used by Trace Minerals Research.

QC Signature: 

Date Signed: 07/20/10

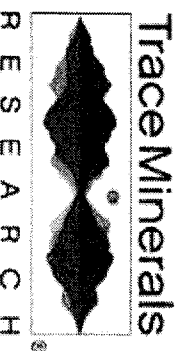
Full Analysis Summary-Master Batch

Concentration			Lot Number: 52010		
Mineral	Specification	Result	Mineral	Specification	Result
Aluminum	<1 ppm	0.44 ppm	Iodine	Not Established	1.96 ppm
Antimony	Not Established	<0.5 ppm	Iridium	Not Established	<0.05 ppm
Arsenic	Not Established	0.309 ppm	Iron	Not Established	4.68 ppm
Barium	Not Established	<0.5 ppm	Lanthanum	Not Established	<0.5 ppm
Beryllium	Not Established	<0.5 ppm	Lead	< 0.3 ppm	<0.05 ppm
Bismuth	Not Established	<0.5 ppm	Lithium	Not Established	740 ppm
Boron	Not Established	480 ppm	Lutetium	Not Established	0.017 ppm
Bromine	Not Established	1.04 ppm	Magnesium	100-110 mg/ml	102.0 mg/ml
Cadmium	<0.5 ppm	<0.05 ppm	Manganese	Not Established	1.04 ppm
Calcium	Not Established	21.71 ppm	Mercury	<0.1 ppm	<0.05 ppm
Carbonate	Not Established	137 ppm	Molybdenum	Not Established	0.29 ppm
Cerium	Not Established	0.061 ppm	Neodymium	Not Established	0.031 ppm
Cesium	Not Established	<0.05 ppm	Nickel	Not Established	<0.5 ppm
Chloride	280-350 mg/ml	294.0 mg/ml	Niobium	Not Established	<0.5 ppm
Chromium	Not Established	<0.5 ppm	Osmium	Not Established	<0.03 ppm
Cobalt	Not Established	<0.5 ppm	Palladium	Not Established	<0.03 ppm
Copper	Not Established	<0.5 ppm	Phosphorus	Not Established	1.82 ppm
Cyproprosim	Not Established	0.043 ppm	Potassium	Not Established	<0.03 ppm
Erbium	Not Established	0.032 ppm	Platinum	Not Established	2.5 mg/ml
Europium	Not Established	<0.03 ppm	Praseodymium	Not Established	0.051 ppm
Fluoride	Not Established	1.04 ppm	Rhenium	Not Established	<0.02 ppm
Gadolinium	Not Established	0.052 ppm	Rhodium	Not Established	<0.03 ppm
Gallium	Not Established	0.302 ppm	Rubidium	Not Established	0.609 ppm
Germium	Not Established	0.072 ppm	Ruthenium	Not Established	0.032 ppm
Gold	Not Established	<0.05 ppm	Samarium	Not Established	0.04 ppm
Hafnium	Not Established	<0.05 ppm	Scandium	Not Established	0.027 ppm
Holmium	Not Established	<0.05 ppm	Selenium	Not Established	0.209 ppm
Indium	Not Established	0.024 ppm	Silicon	Not Established	3.61 ppm
			Silver	Not Established	<0.5 ppm
			Sodium	<4 mg/ml	1.75 mg/ml
			Strontium	Not Established	0.249 ppm
			Sulfate	15-30 mg/ml	28.00 mg/ml
			Sulfur	Not Established	7.212 ppm
			Tantalum	Not Established	0.036 ppm
			Tellurium	Not Established	<0.5 ppm
			Terbium	Not Established	<0.05 ppm
			Thallium	Not Established	0.219 ppm
			Thorium	Not Established	<0.5 ppm
			Tiulium	Not Established	<0.05 ppm
			Tin	Not Established	<0.5 ppm
			Titanium	Not Established	<0.5 ppm
			Tungsten	Not Established	0.77 ppm
			Vanadium	Not Established	1.34 ppm
			Ytterbium	Not Established	0.025 ppm
			Yttrium	Not Established	0.468 ppm
			Zinc	Not Established	0.39 ppm
			Zirconium	Not Established	

All results listed are from third party laboratory testing and the laboratory has been qualified by TMR. The results and methods used to find these results are approved by TMR.

QC Signature
Date


07/20/10



TRACE MINERALS



Certificate of Analysis

Product Name: ConcenTrace®*

Lot Number: 072

Mfg Date: 08/04/10

Date Tested: 6/08/2010

Exp. Date: 08/15

Country of Origin: United States of America

**Testing results based on master testing of ConcenTrace® master batch number 52010*

<u>Heavy Metal Testing</u>	<u>Specification</u>	<u>Lot Results</u>	<u>Method</u>
Lead*	Less than 0.5 ppm	<0.05 ppm	ICP
Mercury*	Less than 0.1 ppm	<0.05 ppm	ICP

<u>Microbial Testing</u>	<u>Specification</u>	<u>Lot Results</u>	<u>Method</u>
Standard Plate Count*			
Bacteria cfu/g	<1000 cfu/g	<10 cfu/g	AOAC
E. coli cfu/g*	< 10 cfu/g	<10 cfu/g	AOAC
Salmonella*	Negative	Negative	FDA BAM

Signature below confirms review of testing by third party laboratory to be found acceptable and meets qualifications for contract laboratories used by Trace Minerals Research. Results for master batch available on request.



 QC Manager

08/2010

 Date