

## Mineral Resources International, Inc. (MRI)

## Laboratory

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## Certificate of Analysis

In Plant Quality Control

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Product Name: Magnesium  
 Country of Origin: United States of America  
 Lot Number: 005-K02

Manufactured (Test) Date: 13-Feb-2018  
 Expiration Date: 13-Feb-2022

## Mineral Analysis

Minerals	Method	Specification	Average	Lot Results
Chloride	Anions by LC	280 ~ 340 mg/mL	315 mg/mL	317 mg/mL
Magnesium	ICP	102 ~ 120 mg/mL	111 mg/mL	110 mg/mL
Sulfate	Anions by LC	13 ~ 30 mg/mL	20.8 mg/mL	17.4 mg/mL
Sodium	ICP	Less than or equal to 2.6 mg/mL	1.68 mg/mL	1.66 mg/mL
Potassium	ICP	Not Established	0.50 mg/mL	0.50 mg/mL
Lithium	ICP	Verified Present	0.81 mg/mL	0.49 mg/mL
Boron	ICP	Verified Present	0.60 mg/mL	0.21 mg/mL

<This product also contains other naturally occurring trace Minerals found in the Great Salt Lake. If you need a full spectrum test results, please contact your sales representative.>

## Heavy Metal Analysis

Heavy Metals	Method	Specification	Average	Lot Results
Total Heavy Metals*	EPA SW6020 mod. EPA SW7040 mod.	Less than 5 ppm	<5 ppm	<5 ppm

\* Total heavy metals include As, Cd, Pb, and Hg.

## Other Contaminant Analysis

Contaminant Group	Method	Specification	Average	Lot Results
Pesticides	EPA SW8081 mod.	Less than U.S. EPA MCL	Conform	Conform
Polychlorinated Biphenyl (PCBs)	EPA SW8082 mod.	Less than U.S. EPA MCL	Conform	Conform
Herbicides	EPA SW8151 mod.	Less than U.S. EPA MCL	Conform	Conform
Semi Volatiles	EPA SW8270 mod.	Less than U.S. EPA MCL	Conform	Conform

## Physical Data

Physical Description	Method	Specification	Average	Lot Results
Color	Visual	Light Yellow	Light Yellow	Light Yellow
pH	MRI SOP QL0160	4.5 ~ 5.9	5.28	5.30
Specific Gravity	MRI SOP QL0100	1.25 ~ 1.39	1.322	1.281
Refractive Index	MRI SOP QL0150	49.3 ~ 54.5 Degree Brix	52.58 Degree Brix	53.40 Degree Brix

## Microbiological Profile

Microbe	Method	Specification	Average	Lot Results
Standard Plate Count	FDA BAM 8th Ed.	Less than 10,000 cfu/mL	<10 cfu/mL	<1 cfu/mL
Total Coliform	FDA BAM 8th Ed.	Less than 100 cfu/mL	<1 cfu/mL	<1 cfu/mL
<i>Escherichia coli</i>	FDA BAM 8th Ed.	Negative*	Negative*	Negative*
Enterobacteriaceae	FDA BAM 8th Ed.	Negative*	Negative*	Negative*
<i>Pseudomonas aeruginosa</i>	FDA BAM 8th Ed.	Negative*	Negative*	Negative*
<i>Staphylococcus aureus</i>	FDA BAM 8th Ed.	Negative*	Negative*	Negative*
Yeast & Fungus	FDA BAM 8th Ed.	Less than 1,000 cfu/mL	<1 cfu/mL	<1 cfu/mL

\* Negative represents less than 1 cfu/mL.

Analyst:

Date Signed:

FEB 28 2016

Reviewer:

Date Signed:

FEB 28 2016

Quality Assurance:

Date Signed:

FEB 28 2016

The data 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.

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The prospective user determines the suitability of the product for intended use. As testing improves, the specifications, averages, and the best-sold-by date may change without notice.

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