

**Test Certificate**

**Product Name:** Liquid Minerals (Nigari)  
**INCI Name:** Magnesium chloride  
**CAS Number:** 7786-30-3

Analysis	Results	Per Unit	Method
Aluminum	<0.5	ppm	ICP-OES USP <730>
Antimony	<0.5	ppm	ICP-OES USP <730>
Arsenic	0.001	ppm	ICP-MS USP <730>
Barium	448	ppm	ICP-OES USP <730>
Beryllium	1.18	ppm	ICP-OES USP <730>
Bismuth	1.48	ppm	ICP-OES USP <730>
Boron	245	ppm	ICP-OES USP <730>
Cadmium	<0.001	ppm	ICP-MS USP <730>
Calcium	99,480	ppm	ICP-OES USP <730>
Carbon		ppm	LECO
Cerium	<0.001	ppm	ICP-MS USP <730>
Cesium	0.037	ppm	ICP-MS USP <730>
Chloride	176.7	mg/ml	Titration
Chromium	<0.5	ppm	ICP-OES USP <730>
Cobalt	<0.5	ppm	ICP-OES USP <730>
Copper	<0.5	ppm	ICP-OES USP <730>
Dysprosium	<0.001	ppm	ICP-MS USP <730>
Erbium	<0.001	ppm	ICP-MS USP <730>
Europium	0.116	ppm	ICP-MS USP <730>
Fluoride	0.0011	mg/ml	ICP-MS USP <730>
Gadolinium	0.001	ppm	ICP-MS USP <730>
Gallium	5.5	ppm	ICP-MS USP <730>
Germanium	<0.001	ppm	ICP-OES USP <730>
Gold	<0.5	ppm	ICP-MS USP <730>

**Disclaimer:** This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is to be the best of the company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitability & completeness of such information for his own particular use.

Hafnium	<0.001	ppm	ICP-MS USP <730>
Holmium	<0.001	ppm	ICP-MS USP <730>
Indium	<0.001	ppm	ICP-MS USP <730>
Iodine	0.0013	mg/ml	Titration
Iridium	<0.001	ppm	ICP-MS USP <730>
Iron	3.86	ppm	ICP-OES USP <730>
Lanthanum	<0.5	ppm	ICP-OES USP <730>
Lead	0.016	ppm	ICP-MS USP <730>
Lithium	1.665	ppm	ICP-OES USP <730>
Lutetium	0.009	ppm	ICP-MS USP <730>
Magnesium	22,310	ppm	ICP-OES USP <730>
Manganese	<0.5	ppm	ICP-OES USP <730>
Mercury	<0.001	ppm	ICP-MS USP <730>
Molybdenum	<0.5	ppm	ICP-OES USP <730>
Neodymium	0.002	ppm	ICP-MS USP <730>
Nickel	1.8	ppm	ICP-OES USP <730>
Niobium	<0.5	ppm	ICP-OES USP <730>
Osmium	0.006	ppm	ICP-MS USP <730>
Palladium	0.013	ppm	ICP-MS USP <730>
Phosphorous	<0.5	ppm	ICP-OES USP <730>
Platinum	0.001	ppm	ICP-MS USP <730>
Potassium	3,610	ppm	ICP-OES USP <730>
Praseodymium	<0.001	ppm	ICP-MS USP <730>
Rhenium	<0.001	ppm	ICP-MS USP <730>
Rhodium	0.177	ppm	ICP-MS USP <730>
Rubidium	2.98	ppm	ICP-MS USP <730>
Ruthenium	0.736	ppm	ICP-MS USP <730>
Samarium	0.001	ppm	ICP-MS USP <730>
Scandium	<0.001	ppm	ICP-MS USP <730>
Selenium	5.63	ppm	ICP-OES USP <730>
Silicon	8.15	ppm	ICP-OES USP <730>
Silver	<0.5	ppm	ICP-OES USP <730>

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Sodium	6,358	ppm	ICP-OES USP <730>
Strontium	3,665	ppm	ICP-OES USP <730>
Sulfur	2,616	ppm	ICP-OES USP <730>
Tantalum	<0.001	ppm	ICP-MS USP <730>
Tellurium	<0.5	ppm	ICP-OES USP <730>
Terbium	<0.001	ppm	ICP-MS USP <730>
Thallium	<0.5	ppm	ICP-OES USP <730>
Thorium	<0.5	ppm	ICP-OES USP <730>
Thulium	<0.001	ppm	ICP-MS USP <730>
Tin	<0.001	ppm	ICP-OES USP <730>
Titanium	<0.5	ppm	ICP-OES USP <730>
Tungsten	<0.5	ppm	ICP-OES USP <730>
Vanadium	<0.5	ppm	ICP-OES USP <730>
Ytterbium	0.014	ppm	ICP-MS USP <730>
Yttrium	<0.5	ppm	ICP-OES USP <730>
Zinc	22.0	ppm	ICP-OES USP <730>
Zirconium	<0.5	ppm	ICP-OES USP <730>
Fulvic Acid	0.223	Mg/ml	HLPC
SPC	<10	CFU/g	USP <2021>

The above data were obtained using the test indicated and is subject to the deviation inherent in the test method. Results may vary under other test methods or conditions.

This report is not to be signed.

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