

Certificate of Analysis

MINERAL ANALYSIS

Analysis	Method	Specification	Results
Appearance	Visual	Granules	Pass
Color	Visual	White/Off White	Pass
Odor	Olfactory	Characteristic	Pass
Calcium	USP 730	≥ 35 %	40.40 %
Magnesium	USP 730	≥ 1000 ppm	1,401 ppm
Lead	USP 730	< 0.5 ppm	0.167 ppm
Mercury	USP 730	< 0.5 ppm	0.009 ppm
Arsenic	USP 730	< 0.5 ppm	0.097 ppm
Cadmium	USP 730	< 1.5 ppm	0.217 ppm

MICROBIOLOGICAL ANALYSIS

Analysis	Method	Specification	Results
Plate Count Petrifilm	AOAC 997.12	< 3000 CFU/g	10 CFU/g
Yeast Petrifilm	AOAC 997.02	< 10 CFU/g	<10 CFU/g
Mold Petrifilm	AOAC 997.02	< 10 CFU/g	<10 CFU/g
Staph. Aureus Petrifilm	AOAC 2003.07	< 10 CFU/g	<10 CFU/g
Total Coliform Petrifilm	AOAC 991.14	< 10 CFU/g	<10 CFU/g
Salmonella	AOAC 989.13	Negative/10g	Negative
E. Coli Petrifilm	AOAC 991.14	< 10 CFU/g	<10 CFU/g
Particle Size: ≥ 97% through 10 mesh, ≥ 97% mesh retained on 30 mesh			

TYPICAL TRACE MINERAL ANALYSIS

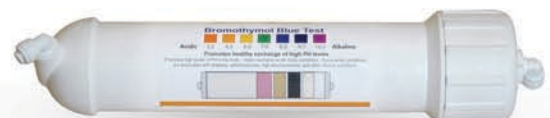
Trace Minerals	Results	Units	Trace Minerals	Results	Units	Trace Minerals	Results	Units
Aluminum	18.1	ppm	Holmium	<0.05	ppm	Samarium	0.58	ppm
Antimony	1.76	ppm	Indium	0.067	ppm	Scandium	<0.02	ppm
Barium	5.0	ppm	Iodine	8.04	ppm	Selenium	0.23	ppm
Beryllium	0.015	ppm	Iridium	<0.05	ppm	Silicon	421	ppm
Bismuth	0.048	ppm	Iron	106	ppm	Silver	0.39	ppm
Boron	0.668	ppm	Lanthanum	<0.05	ppm	Sodium	168	ppm
Bromine	8.68	ppm	Lithium	0.194	ppm	Strontium	73.6	ppm
Carbon	126,000	ppm	Lutetium	0.031	ppm	Sulfur	547	ppm
Cerium	0.98	ppm	Manganese	8.08	ppm	Tantalum	0.05	ppm
Cesium	1.08	ppm	Molybdenum	0.088	ppm	Tellurium	0.039	ppm
Chloride	221	ppm	Neodymium	0.67	ppm	Terbium	0.044	ppm
Chromium	1.99	ppm	Nickel	0.061	ppm	Thallium	1.07	ppm
Cobalt	0.059	ppm	Niobium	1.05	ppm	Thorium	<0.05	ppm
Copper	5.36	ppm	Osmium	<0.05	ppm	Thulium	0.05	ppm
Dysprosium	0.602	ppm	Palladium	0.019	ppm	Tin	0.75	ppm
Erbium	7.4	ppm	Phosphorus	43.98	ppm	Titanium	0.65	ppm
Europium	0.106	ppm	Platinum	0.015	ppm	Tungsten	0.025	ppm
Fluoride	1.54	ppm	Potassium	20.1	ppm	Vanadium	1.21	ppm
Gadolinium	0.796	ppm	Praseodymium	0.62	ppm	Ytterbium	0.044	ppm
Gallium	0.305	ppm	Rhenium	<0.05	ppm	Yttrium	0.552	ppm
Germanium	0.352	ppm	Rhodium	<0.01	ppm	Zinc	7.53	ppm
Gold	0.034	ppm	Rubidium	14.3	ppm	Zirconium	1.62	ppm
Hafnium	<0.03	ppm	Ruthenium	0.06	ppm			

PESTICIDE ANALYSIS

Analysis				Testing Method: EPA 8081/8082				Analysis			
Analysis	Det. Limit	Results	Units	Analysis	Det. Limit	Results	Units	Analysis	Det. Limit	Results	Units
4, 4' - DDE	9.9	n.d.	μ/kg	Aroclor 1254	99	n.d.	μ/kg	Heptachlor Epoxide	5.1	n.d.	μ/kg
4, 4' - DDD	9.9	n.d.	μ/kg	Aroclor 1260	99	n.d.	μ/kg	Toxaphene	495	n.d.	μ/kg
4, 4' - DDT	9.9	n.d.	μ/kg	Dieldrin	9.9	n.d.	μ/kg	Alpha-Chlordane	5.1	n.d.	μ/kg
4, 4' - Methoxychlor	51	n.d.	μ/kg	Endosulfan I	5.1	n.d.	μ/kg	Alpha-BHC	5.1	n.d.	μ/kg
Aldrin	5.1	n.d.	μ/kg	Endosulfan II	9.9	n.d.	μ/kg	Beta-BHC	5.1	n.d.	μ/kg
Aroclor 1016	99	n.d.	μ/kg	Endosulfan Sulfate	9.9	n.d.	μ/kg	Delta-BHC	5.1	n.d.	μ/kg
Aroclor 1221	198	n.d.	μ/kg	Endrin	9.9	n.d.	μ/kg	Gamma-BHC (Lindane)	5.1	n.d.	μ/kg
Aroclor 1232	99	n.d.	μ/kg	Endrin Aldehyde	9.9	n.d.	μ/kg	Gamma-Chlordane	5.1	n.d.	μ/kg
Aroclor 1242	99	n.d.	μ/kg	Endrin Ketone	9.9	n.d.	μ/kg				
Aroclor 1248	99	n.d.	μ/kg	Heptachlor	5.1	n.d.	μ/kg				

Sterilization: Heat
Carriers / Flow Agents: NONE

Made in USA



Last Updated: 02/07/2013