

Western Analysis Inc
40 West Louise Ave
Salt Lake City, Utah 84115

May 27, 2003
 Project # 03-0425

Analyst: Kyle Schick, Laboratory Manager/Chemist
Analysis Total elemental composition of Sango Lot# GRS013099
Requested:
Sample I.D.: Sango Lot# GRS013099
 Lab # 86688

Procedure: The sample identified as Sango Lot# GRS013099 sample was diluted as necessary in glass Class A volumetric flasks. The elements Chloride, Fluoride, and Bromine were analyzed via Ion Chromatography (I.C.). Cold Vapor Atomic Absorption (CVAA) was used for analysis of Mercury. Graphite Furnace Atomic Absorption (GFAA) was the method used to determine Arsenic, Selenium, Lead, and Antimony. Semi-quantitative analysis for all other elements was carried out using Inductively Coupled Plasma - Optical Emission Spectrometry (ICP-OES).

ANALYTE	UNITS	Sango Lot# GRS013099	ANALYTE	UNITS	Sango Lot# GRS013099
Aluminum	ppm	12.0	Mercury	ppm	< 0.005
Antimony	ppm	2.36	Molybdenum	ppm	0.104
Arsenic	ppm	0.070	Neodymium	ppm	0.481
Barium	ppm	4.79	Nickel	ppm	0.059
Beryllium	ppm	0.058	Niobium	ppm	0.065
Bismuth	ppm	0.026	Osmium	ppm	< 0.05
Boron	ppm	0.455	Palladium	ppm	0.010
Bromine	ppm	7.80	Phosphorus	ppm	14.7
Cadmium	ppm	0.037	Platinum	ppm	< 0.01
Calcium	ppm	378,000.	Potassium	ppm	108.
Carbon	ppm	126,000.	Praseodymium	ppm	0.071
Cerium	ppm	1.12	Rhenium	ppm	< 0.05
Cesium	ppm	0.88	Rhodium	ppm	< 0.01
Chloride	ppm	115.	Rubidium	ppm	12.9
Chromium	ppm	3.79	Ruthenium	ppm	0.034
Cobalt	ppm	0.040	Samarium	ppm	0.771
Copper	ppm	13.7	Scandium	ppm	< 0.02
Dysprosium	ppm	7180.	Selenium	ppm	0.101
Erbium	ppm	4.33	Silicon	ppm	510.
Europium	ppm	< 0.05	Silver	ppm	0.106
Fluoride	ppm	0.894	Sodium	ppm	78.2
Gadolinium	ppm	0.744	Strontium	ppm	23.9
Gallium	ppm	0.028	Sulfur	ppm	488.
Germanium	ppm	0.097	Tantalum	ppm	0.253
Gold	ppm	< 0.01	Tellurium	ppm	0.039

Hafnium	ppm	< 0.03	Terbium	ppm	0.028
Holmium	ppm	< 0.05	Thallium	ppm	0.457
Indium	ppm	0.033	Thorium	ppm	< 0.05
Iodine	ppm	11.2	Thulium	ppm	< 0.05
Iridium	ppm	< 0.05	Tin	ppm	0.064
Iron	ppm	127.	Titanium	ppm	1.21
Lanthanum	ppm	< 0.05	Tungsten	ppm	< 0.02
Lead	ppm	0.076	Vanadium	ppm	0.98
Lithium	ppm	0.097	Ytterbium	ppm	0.028
Lutetium	ppm	0.018	Yttrium	ppm	0.463
Magnesium	ppm	7.910	Zinc	ppm	1.78
Manganese	ppm	3.74	Zirconium	ppm	0.318

Looking at the above Certificate of Analysis, you may wonder about heavy metal contamination, such as Lead and Mercury in our Coral Calcium. Our coral is fossilized and about 20 million years old - so it actually predates man's pollution unlike the varieties that are sucked from the ocean bottom. Furthermore, each batch is tested by an independent laboratory upon arrival from Okinawa and as evidenced in this Certificate, our levels are better than the strictest requirements in the world - that of the State of California. You undoubtedly have higher levels in the air you breathe if you live in a city.

As for Arsenic, quoting from Dr. Halstead's book "Arsenic is an essential trace mineral (NRC, 1989). Studies in rats have shown that a deficiency of arsenic is associated with retarded growth." In other words it is required for human health.

In larger amounts and different forms arsenic can be deadly poison however, Arsenic is found in many seafood's in ranges of 3 - 10.3 parts per million while it is in coral calcium at about .038 PPM ...less than one hundredth the amount - and it is in an organic low level toxicity form. Hopefully these comments will help put into perspective some of the questions that may arise

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