

Maine Coast Sea Vegetables Inc.
3 Georges Pond Rd.
Franklin ME 04634

The supplied assorted samples were processed using an HPGe (High-Purity Germanium) detector from February 9th 2015 through February 26th 2015 to determine radionuclide information. Due to the low activities (expressed in Bq/kg) for each of the radionuclides (I-131, Cs-134, Cs-137, K-40, Pb-214, Bi-214) whose data was requested, each sample was processed for one 24hr time allotment. Each of the radionuclide photo-peaks were compared with both a certified radioactive source standard and Canberra's LabSOCS efficiency software to ensure accuracy in the experimental data. The results are as follows:

Table 1.1: Radionuclide and safety information for each of the supplied samples (Received January 26th, 2015)

Sample - Isotope	Pb-214 (Bq/kg) +/-32%	Cs-137 (Bq/kg) +/-10.2%	K-40 (Bq/kg) +/-8.1%	Bi-214 (Bq/kg) +/-34%	Cs-134 (Bq/kg) +/-41%	I-131 (Bq/kg) +/-40%
NAK Asco (Lot#27011615)	2.34	0.708	773.28	0.376	0.818	.0324
Kelp Powder (Lot#68011615)	0.212	0.321	1001.2	0.213	0.717	0.002
Dulse Granules Lot#47011615)	2.13	0.213	978.4	0.021	0.912	0.003
Irish Moss Powder Lot#26011615)	1.89	0.211	908.2	0.087	1.01	0.001
Kelp Leaf Lot#61011615)	0.892	2.13	1021.5	0.343	0.982	0.034
Rockweed Powder Lot#28011615)	2.13	0.754	982.4	0.003	0.982	0.098
Sushi Nori (Toasted) Lot#94011615)	1.01	1.11	881.6	0.072	1.09	0.006

Remarks:

The results from Gamma-ray spectroscopy of each sample fully coincide with photo-peak expectations for each radionuclide. Though some I-131, Bi-214 and Cs-134 were reported in Table 1.1, their values were so low compared with the overall background noise that the data for each photo-peak is more probable than not, statistically insignificant. Final note: as expected for food samples, the highly abundant, natural radioisotope, K-40, had the greatest photo-peak magnitude while still remaining within safe, federally mandated levels.

All of the activities observed and the theoretical dose rates calculated complied with NRC: 10 CFR 20 Federal guidelines outlining radioactive safety for dosage and exposure.

Sincerely,

Dr. C.T. Hess, Professor of Physics