



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077
Phone: (856) 858-4800

Attn.: LRS Foods, LLC
Sheet Seaweed Report

EMSL Case No.: 381505327

Sample(s) Received: 7/1/2015

Date of Analysis: 7/22/2015

Date Printed: 7/22/2015

Reported By: Laura A. Freeman

Phone:

Fax:

Email:

- Laboratory Report -

Gamma Spectroscopy

Project: Nori Dried Seaweed

Procurement of Samples and Analytical Overview:

The Nori Dried Seaweed sample that was submitted for Gamma Spectroscopy analysis was received on July 1, 2015. The sample was chopped into small pieces and transferred into an appropriately labeled 500mL Marinelli beaker for counting. The sample was counted for 8 hours using a high purity Germanium gamma detector. The sample was then analyzed using the EMSL "P" Library to look for specific isotopes. This library mainly focuses on Naturally Occurring Radioactive Material (NORM) along with the addition of Cesium, Iodine, Zirconium, and Cobalt.

Please see the following results for the sample submitted for analysis.

Analyzed by:

Laura A. Freeman

7/22/2015

Date

Reviewed/Approved:

Laura A. Freeman
Laboratory Manager

7/22/2015

Date



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Results:

381505327 - Nori Dried Seaweed		
Element	Activity, pCi/g	Detection Limit, pCi/g
TI-208	<MDA	0.038
Pb-212	<MDA	0.058
Pb-214	<MDA	0.077
Bi-212	<MDA	0.186
Bi-214	0.127	0.081
Rn-219	<MDA	0.097
U-235	<MDA	0.045
Ra-223	<MDA	0.142
Ra-224	<MDA	0.504
Ra-226	<MDA	0.587
Ac-228	<MDA	0.164
Th-227	<MDA	0.088
Th-228	<MDA	2.235
Th-230	<MDA	5.106
Th-231	<MDA	0.349
Th-234	<MDA	1.358
Pa-231	<MDA	0.513
Pa-234	<MDA	0.099
K-40	<MDA	2.422
Cs-134	<MDA	0.033
Cs-137	<MDA	0.041
I-131	<MDA	0.021
Zr-95	<MDA	0.026
Co-60	<MDA	0.015

Conclusion:

Based on the data above, the Nori Dried Seaweed Sheets received showed no significant gamma radiation for the isotopes listed. The activity detected is from naturally occurring radioactive materials.



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LRS Foods, LLC
Sheer Seaweed Report

EMSL Case No.: 381505327

Sample(s) Received: 7/1/2015

Date of Analysis: 7/22/2015

Date Printed: 7/22/2015

Reported By: Laura A. Freeman

Phone:

Fax:

Email:

Descriptions & Definitions:

MDA – Is the minimum amount of detectable activity associated for a particular measurement.

<MDA – Refers to the fact that the amount of activity was lower than what the instrument could quantify for a particular measurement.

Important Terms, Conditions, and Limitations:

Sample Retention: Samples analyzed by EMSL will be retained for 60 days after analysis date. Storage beyond this period is available for a fee with written request prior to the initial 30 day period. Samples containing hazardous/toxic substances which require special handling may be returned to the client immediately. EMSL reserves the right to charge a sample disposal or return shipping fee.

Change Orders and Cancellation: All changes in the scope of work or turnaround time requested by the client after sample acceptance must be made in writing and confirmed in writing by EMSL. If requested changes result in a change in cost the client must accept payment responsibility. In the event work is cancelled by a client, EMSL will complete work in progress and invoice for work completed to the point of cancellation notice. EMSL is not responsible for holding times that are exceeded due to such changes.

Warranty: EMSL warrants to its clients that all services provided hereunder shall be performed in accordance with established and recognized analytical testing procedures and with reasonable care in accordance with applicable federal, state and local laws. The foregoing express warranty is exclusive and is given in lieu of all other warranties, expressed or implied. EMSL disclaims any other warranties, express or implied, including a warranty of fitness for particular purpose and warranty of merchantability.

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The data and other information contained in this report, as well as any accompanying documents, represent only the samples analyzed. They are reported upon the condition that they are not to be reproduced wholly or in part for advertising or other purposes without the written approval from the laboratory.