

Product Specifications

InSea2[®]

(*Ascophyllum nodosum* and *Fucus vesiculosus*)

Product Code: 34714000

Product Description: Demineralized polyphenols extracted from wildcrafted brown seaweed *Ascophyllum nodosum* and *Fucus vesiculosus*.

Product Properties

Color	Brown
Appearance	Powder, fine, free-flowing
Taste	Characteristic of seaweed
Odor	Characteristic of seaweed
Excipient	None
Extraction Solvent	Water
Ratio	12-16:1 (dried seaweed:finished product)
Mesh Size	> 90% through 50 mesh
Identity	NMR on raw material
Plant part used	Whole plant

Analytical Values

		Spec.
Polyphenol (expressed as caffeic acid equivalence; OC-014)	> 20	%
Iodine (ICP-MS)	< 300	ppm
Inhibition of α -Amylase (at 0.1 g/l; OC-029)	> 80	%
Bulk Density (USP <616>)	\geq 0.45	g/mL
Loss on Drying (Halogen Moisture Analyzer)	< 10	%

Heavy Metals and Pesticides

		Spec.
Lead (ICP-MS)	< 3	ppm
Inorganic Arsenic (ICP-MS)	< 2	ppm
Cadmium (ICP-MS)	< 0.5	ppm
Mercury (ICP-MS)	< 0.5	ppm
Pesticides	The finished product conforms to USP <561>.	

Microbiological Values

		Spec.
Total Aerobic Plate Count (USP <61>)	< 1,000	CFU/g
Yeast and Mold (USP <61>)	< 50	CFU/g
<i>E.coli</i> (USP <62>)	Absent	
<i>S.aureus</i> (USP <62>)	Absent	
<i>P.aeruginosa</i> (USP <62>)	Absent	
<i>Salmonella</i> (USP <62>)	Absent	

Country of Origin: Canada (raw material and manufacturing)

Packaging: Poly bag with desiccants in a corrugated box, 20kg net weight

Storage: The product must be stored in a cool ($\leq 68^\circ\text{F}/20^\circ\text{C}$) and dry area. Keep the package well-sealed since the product is hygroscopic. Moisture absorption may cause changes in chemical values.

Best Used By: 36 months after production date under proper storage conditions

Quality Assurance

The information contained herein is, to the best of our knowledge, correct. The data outlined and the statements made are intended only as a source of information. No warranties, expressed or implied, are made. On the basis of this information, it is suggested that you evaluate the product on a laboratory scale prior to use in a finished product.

Customer Approval

I acknowledge and agree to the above specifications. Any parameters outside of these would not fall within the scope of the product specifications. Please return this specification sheet signed for approval otherwise we consider it accepted.

Name (print):

Signature:

Title:

Date:
