

TECHNICAL DATA SHEET

FucoVin™ Fucoidan

85%

Chemical Properties

Plant Source: *Laminaria Japonica*

Cultivated or Wild: Wild

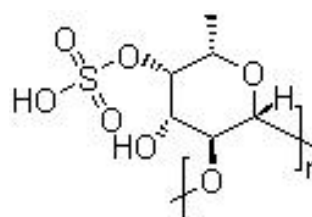
Plant Part Used: Leaf

Extract Solvent: 100% Water

Insolubles in Water: Soluble

CAS: 9072-19-9

Molecular Formula: Unspecified



Description

Fucoidan is a sulfated polysaccharide found mainly in various species of brown seaweed such as kombu, limu moui, bladderwrack, wakame, mozuku, and hijiki (variant forms of fucoidan have also been found in animal species, including the sea cucumber). Fucoidan is used as an ingredient in some dietary supplement products.

Solubility

It is soluble in water, but insoluble in ethanol, chloroform and ether.

Specification

Item	Specification	Test Method
Appearance	Off-White or Light yellow powder	Visual
Odor& taste	Very light seaweed odor and taste	Organoleptic
Fucoidan	Min 85.0%	In-house
Organic SO ₄ ²⁻	Min 22.0%	Precipitation
L-Fucose	Min 15.0%	HPLC
Particle Size	Min 98% through 80 mesh	80 mesh screen
Loss on drying	Max 5.0%	USP<731>
pH(1% suspension at 25℃)	4.0~7.0	AOAC
Ash	20.0~30.0	AOAC
Heavy metals	Max 10.0ppm	Colorimetry
Arsenic(inorganic)	Max 1.0ppm	Atomic Absorption Method

Lead	Max 2.0ppm	Atomic Absorption Method
Cadmium	Max 1.0ppm	Atomic Absorption Method
Mercury	Max 0.3ppm	Atomic Absorption Method
Total aerobic microbial count	Max 10,000cfu/g	USP<2021>
Yeasts& Molds	Max 100cfu/g	USP<2021>
<i>E. Coli</i>	Negative	USP<2022>
<i>Salmonella</i>	Negative	USP<2022>
<i>Staphylococcus</i>	Negative	USP<2022>
<i>P. Aureginosa</i>	Negative	USP<2022>

Ingredients

FucoVin™ Fucoidan 85% is a kind of polysaccharide consisting of min 85% Fucoidan, min 15.0% L-Fucose, min 22.0% Organic SO₄²⁻.

Labeling

In the United States and the European Union: FucoVin™ Fucoidan 85%.

Applications

Fucoidan is an excellent raw material of health-foods and drug medicine: Anti-tumor, Anti-oxidation, Immunomodulation, Anticoagulant, Renal benefit, Anti-aging, Wound healing, Brightening.

Safety

This product is safe for the intended use. Avoid ingestion, inhalation of dust or direct contact by applying suitable protective measures and personal hygiene. See Material Safety Data Sheet for full safety information.

Handling recommendations

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid contact with heat, sparks and flame. Avoid ingestion and inhalation.

Keep away from sparks, and flame. Keep away from sources of ignition. Keep container closed when not in use. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances and flammables-area.

Packaging, Storage & Shelf Life

Package	1g/bag;1kg/aluminum foil bag;;or according to customers' requirements.
Storage	Store in a cool and dry place. Be kept in the sealed container, avoiding strong and direct light and moisture.
Shelf life	2 years if sealed and stored properly.