

TECHNICAL DATA SHEET

FucoVin™ Fucoidan

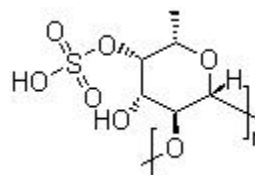
70%

Chemical Properties

CAS No: 9072-19-9;

Chemical Formula: $(C_6H_{10}O_7S)_n$

Plant Source: *Laminaria Japonica*



Description

Fucoidan is a sulfated polysaccharide (MW: average 20,000) found mainly in various species of brown seaweed such as kombu, limumoui, 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 to brown powder	Visual
Odor	Characteristic	Organoleptic
Fucoidan	Min 70.0%	In-house
Fucose	Min 13.0%	HPLC
Organic SO_4^{2-}	Min 18.0%	Precipitation
Raw Protein	6~10%	In-house
Insolubles in water	Max 5%	In-house
Particle Size	100% through 80 mesh	80 mesh screen
Loss on drying	Max 5.0%	USP<731>
Heavy metals	Max 10ppm	Colorimetry
Arsenic	Max 2.5ppm	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 Plate Count	Max 10,000cfu/g	USP<2021>
Mold	Max 100cfu/g	USP<2021>
<i>E. Coli</i>	Negative	USP<2022>
<i>Salmonella</i>	Negative	USP<2022>
<i>Staphylococcus</i>	Negative	USP<2022>

Ingredients

FucoVin™ Fucoidan 70% is a kind of polysaccharide consisting of min 70% Fucoidan, min 13% Fucose, min 18% Organic SO₄²⁻, alduronic acid and some monosaccharides.

Labeling

In the United States and the European Union: Fucoidan

Applications

Fucoidan is an excellent raw material of health-foods and drug medicine: Anti-tumor, Anti-oxidation, Immunomodulation, Anticoagulant, Renalbenefit, 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	1kg/Aluminum foil bag; or according to customers' requirements.
Storage	Store in cool temperature away from moisture and direct sunlight.
Shelf Life	2 years if sealed and stored properly.