

Plant-based Ingredients for Animals



Schizochytrium sp. Powder & Oil

VASTNESS BIOTECH CO.,LTD



Vegan **DHA**, You Should Know.



The Next Generation of Pet Food Strategic Grade Source for DHA- Schizochytrium sp. powder & Oil

The traditional source of DHA is from sea fish, well-known as fish oil. But with the more and more severe marine pollution in these years, its quality is becoming more uncontrollable. Additionally, there are high impacts from seasons, geographical location and other factors, such as overfishing, etc. However, Schizochytrium sp. Powder not only has controllable and traceable throughout production process, but also has high stable quality. It also can provide protein, minerals, vitamins, carotenoids, astaxanthin and other nutrients.

In conclusion, Schizochytrium sp. is an universally applied raw material with its well-known DHA content for animal health with the following:



- Improve visual performance
- Improve hair and skin quality
- Anti-arrhythmic effect
- Increase levels of fatty acids and red blood cells in plasma
- Modulate inflammatory response
- Improve cognitive function


Product list

Product Code	Specifications
SY-101008-1	Crude Algal DHA Oil (50%DHA)
SY-101009-1	Schizochytrium sp. Powder (DHA22%)



DHA&Pet


Scientific Research

 Araujo et al. found through a series of neuropsychological assessments and brain MRI tests that combination of sphingolipid and DHA improved the cognitive deficits in aged Beagle dogs.

Sphingolipids and DHA Improve Cognitive Deficits in Aged Beagle Dogs

Joseph A. Araujo¹, Sergi Segarra^{2}, Jessica Mendes¹, Andrea Paradis¹, Melissa Brooks¹, Sandy Thevarkunnel¹ and Norton W. Milgram³*

¹ InterVivo Solutions Inc., Fergus, ON, Canada, ² R&D Bioiberica S.A.U., Esplugues de Llobregat, Barcelona, Spain, ³ CanCog Inc., Fergus, ON, Canada

 Buddhachat et al. found that the addition of DHA to canine chondrocyte cultures downregulated the expression of genes MMP1, MMP3 and MMP13, thus inhibiting cytokine-induced degradation of the cartilage matrix. Therefore, DHA supplementation can help protect cartilage and joints in pets.

In Vitro Cell.Dev.Biol.—Animal (2017) 53:448–457
DOI 10.1007/s11626-016-0125-y



Effects of different omega-3 sources, fish oil, krill oil, and green-lipped mussel against cytokine-mediated canine cartilage degradation

Kittisak Buddhachat^{1,2} · Puntita Siengdee¹ · Siriwadee Chomdej³ · Kumpanart Soontornvipart⁴ · Korakot Nganvongpanit¹

Combarros et al. found that the addition of DHA and EPA to the diet significantly improved the coat and skin quality of the dogs. This positive effect was observed from the first month and reached stability after two months of supplementation.



Contents lists available at ScienceDirect

Prostaglandins, Leukotrienes and Essential Fatty Acids

journal homepage: www.elsevier.com/locate/plefa



A prospective, randomized, double blind, placebo-controlled evaluation of the effects of an *n*-3 essential fatty acids supplement (Agepi® ω3) on clinical signs, and fatty acid concentrations in the erythrocyte membrane, hair shafts and skin surface of dogs with poor quality coats

D. Combarros^{a,b,1}, E. Castilla-Castaño^{a,1}, L.A. Lecru^{a,1}, C. Pressanti^{a,1}, N. Amalric^{c,1}, MC Cadiergues^{a,b,1,*}

product Comparison

DHA Source Comparison			
	Fish Oil	<i>Schizochytrium</i> sp. Oil	<i>Schizochytrium</i> sp. Powder
DHA content	~10%	~40%	~20%
Pollution issue	?	No	No
Sustainability	?	Yes	Yes
Odor	Heavy fishy smell	Heavy fishy smell	Slight fishy smell
Vegetarian	No	Yes	Yes
Stability	No	No	Yes

✨ In addition, *Schizochytrium* sp Powder provides protein, minerals, vitamins, carotenoids, astaxanthin and other nutrients.

Production Process of HX-308



HX-308, a patented strain sourced from the East China Sea mangrove forest, takes glucose and yeast powder as the main raw materials, and then obtains the Schizochytrium sp. powder through drying after several days of unique high-density fermentation process, with controlled process, clean environment and traceable raw materials.

High Purity & Safety: no organic reagents throughout the entire production process, pure plant-based sources, no food safety risks from food chain enrichment, in line with the concept of green, safe, environmentally friendly and sustainable health consumption.

Intrinsic Quality for Freshness & Stability: fermentation and preparation controllable throughout the process, safe and stable production process, natural triglyceride structure, and reasonable fatty acid composition.



Please reach out to us if you need any product of Schizochytrium sp. Powder & Oil

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