

■ Spirulina Extract (Phycocyanin)

Introduction

Product properties: Phycocyanin is a characteristic light blue color, absorbing orange and red light, it is a pigment-protein complex from the light-harvesting phycobiliprotein family, along with allophycocyanin and phycoerythrin. All phycobiliproteins are water-soluble, so they cannot exist within the membrane like carotenoids can. Instead, phycobiliproteins aggregate to form clusters that adhere to the membrane called phycobilisomes.

Functions: Phycobiliproteins have fluorescent properties that are used in immunoassay kits.

1. Phycocyanin has both anti-oxidant and anti-inflammation properties.
2. Excess oxygen in the brain generates Reactive Oxygen Species (ROS). ROS causes damages to brain neurons, leading to strokes. C-phycocyanin scavenges hydrogen peroxide, a type of ROS species, from the inside of astrocyte, reducing oxidative stress. Astrocytes also increase the production of growth factors like BDNF and NDF, therefore, enhance nerve regeneration. C-PC also prevents astrogliosis and glial inflammation.
3. C-phycocyanin (C-PC) has anti-cancer effects.
4. C-phycocyanin (C-PC) can be used as a natural blue food colouring.

Ingredient

Product Name	Phycocyanin
CAS	11016-15-2
MF	
MW	
MS	

Item and Standard

ITEM	UNIT	STANDARD
Appearance		Blue Powder
Odor		Characteristic
Solubility		Water Soluble
Taste		Characteristic
Particle Size		100% Pass 80 mesh
Loss on Drying	%	≤7.0%
PH Stability		Conform
Light Stability		Conform

Heat Stability	Conform
Lead(Pb)	≤1ppm
Arsenic(As)	≤1ppm
Cadmium(Cd)	≤0.2ppm
Mercury(Hg)	≤0.1ppm
Total Plate Count	≤1000cfu/g
Yeast& Mold	≤100cfu/g
E.Coli	Negative
Salmonella	Negative
Pathogenic Bacteria	Negative

Application

Phycocyanin can be used in many practices, it is particularly used medicine and food applications. It can also be used in genetics, where it acts a tracer due to its natural fluorescence.

Medicine: Anti-oxidation and Anti-inflammation; Neuroprotection; Hepatoprotection; Anti-cancer

Food: C-phycocyanin (C-PC) can be used as a natural blue food colouring.



Packaging

25KG

Storage

Please reading safety data sheet before carrying or using the product.
Cool and dry, keep tightly closed, quality guarantee period is two years.