

HOW TO USE PHYTO A, B, C

- Fresh Phytoplankton
- 30 different species
- Perfectly balanced

ΡΗΥΤΟ Α,Β,C



Phyto A, B C offers a unique blend of high-quality phytoplankton for marine aquariums. Our product, featuring 30 different species, is designed to enhance longevity and health in marine aquariums.

What is Phytoplankton?

Phytoplankton are microalgae, photosynthetic organisms that form the foundation of the food webs in marine and freshwater environments, playing a crucial role in the global carbon cycle. They serve as a fundamental food source for many marine organisms, providing essential nutrients that promote the well-being of fish and other aquatic life.

Phytoplankton are rich in proteins, fatty acids, pigments, vitamins, and minerals necessary for the growth and development of marine life.



ΡΗΥΤΟ Α,Β,C



BENEFITS OF FEEDING WITH PHYTO A, B C FOR MY AQUARIUM

1. NUTRITIONAL BENEFITS:

Algae serve as a perfect food source for various filter-feeding invertebrates, such as corals, clams, dust fish, scallops, tunicates, sponges, copepods, tube worms, sea squirts, and other marine life in aquariums. Regular supplementation with phytoplankton promotes the health, coloration, growth, and polyp expansion of corals and strengthens zooplankton populations.

2. MAINTAINING WATER QUALITY:

Phytoplankton play a crucial role in maintaining water quality by consuming nitrogenous waste through photosynthesis. Live phytoplankton can help reduce nitrate (NO3) and phosphate (PO4) levels in aquariums by absorbing these nutrients. Additionally, phytoplankton can help balance pH levels by increasing dissolved oxygen in the aquarium.

3. CONTROLLING NUISANCE ALGAE:

Targeted dosing of live phytoplankton in aquariums can effectively inhibit or even prevent the growth of unwanted algae species such as hair algae, Bryopsis, and toxic cyanobacteria. Since nuisance algae consume similar nutrients as live phytoplankton, regular addition of phytoplankton can deprive these algae of their food source, gradually displacing them and reducing their presence.

4. ECOSYSTEM BALANCE:

In natural ecosystems, phytoplankton play a vital role in the food web as the foundational element of the ecosystem.







CYANOBACTERIA:

NODULARIA HARVEYANA

The inclusion of Nodularia harveyana in marine aquariums can provide numerous benefits, particularly due to its nutrient-fixing ability. Certain cyanobacteria, such as the non-toxic Nodularia harveyana, are known for converting atmospheric nitrogen into a form usable by other organisms. This capability helps stabilize water quality, promotes overall marine health, and supports the ecological balance in the aquarium.

SYNECHOCOCCUS SP.

Introducing Synechococcus sp. to marine aquariums can offer various benefits, including nutrient fixation, promoting ecological balance, and improving water quality. These positive effects significantly contribute to the health and well-being of the aquatic organisms in the aquarium.









DIATOMS:

ODONTELLA AURITA

By including Odontella aurita in marine aquariums, aquarists can provide marine organisms with a natural source of essential nutrients that promote general health and potentially contribute to the well-being of aquatic life in the aquarium environment (e.g., polyunsaturated fatty acids, pigments, phytosterols).

SKELETONEMA GRETHAE

This diatom is often used in shellfish cultivation and provides important nutrients for marine organisms in the aquarium. Skeletonema grethae stores golden fats (DHA/EPA) in its tissue, making it a nutritious food source for marine organisms. It can grow in both marine and freshwater, making it versatile for various aquatic habitats.

CONTICRIBRA WEISSFLOGII

Introducing Conticribra weissflogii into a marine aquarium can provide essential nutrients, enhance coloration, improve water quality, promote marine organism growth, and contribute to the overall health and balance of the aquatic environment. Its diverse benefits make it a valuable addition to aquarium ecosystems supporting thriving marine life.









HAPTOPHYTES:

ISOCHRYSIS GALBANA

Isochrysis galbana is a motile algae with a high DHA (Docosahexaenoic Acid) content, playing a crucial role in nervous system development. It can form longer chains, making it accessible to various filter feeders, including corals.

TISOCHRYSIS LUTEA

Tisochrysis is rich in compounds such as lipids, proteins, carbohydrates, chlorophyll, and carotenoids, including fucoxanthin. These nutrients provide essential elements for marine organisms in the aquarium, supporting their health and vitality.

PAVLOVA SP.

Pavlova sp. can provide Omega-3 fatty acids, antioxidants, prebiotic fibers, anti-inflammatory properties, and nutrient-rich food for marine organisms. This microalgae contributes to maintaining a healthy and balanced ecosystem in the aquarium environment, promoting the well-being of aquarium inhabitants.









OCHROPHYTES:

NANNOCHLOROPSIS OCULATA

This phytoplankton species is rich in color-enhancing nutritional pigments like astaxanthin, canthaxanthin, and zeaxanthin. By improving the coloration of various aquarium species, Nannochloropsis oculata enhances the visual appeal of marine organisms in the aquarium. It is a valuable source of essential fatty acids and proteins, making it highly nutritious for marine organisms. Due to its small size and high palatability, it is easily consumed by phytoplanktivorous animals and provides important nutrients for their growth and well-being. Nannochloropsis oculata has been observed to strengthen the immune competence of other organisms, benefiting corals and other marine life in the aquarium. Nannochloropsis oculata is the primary food source for countless zooplankton species, contributing to a balanced and diverse food web in the aquarium.

NANNOCHLOROPSIS OCEANICA

Color enhancement: Nannochloropsis oceanica is rich in color-enhancing nutritional pigments like astaxanthin, canthaxanthin, and zeaxanthin, and can enhance the coloration of various aquarium species, improving the aquarium's visual appeal. Incorporating Nannochloropsis oceanica into a marine aquarium can enhance optical attractiveness, provide essential nutrients, improve water quality, and contribute to the overall health and balance of the aquatic ecosystem.

MICROCHLOROPSIS GADITANA

This microalgae is rich in eicosapentaenoic acid (EPA), an important polyunsaturated fatty acid required for the normal bodily function of marine organisms. Microchloropsis gaditana is rich in color-enhancing nutritional pigments like astaxanthin, canthaxanthin, and zeaxanthin, which can enhance the coloration of numerous aquarium species, including corals. Introducing Microchloropsis gaditana into a marine aquarium can provide nutrient-rich food, high EPA content, improved coloration, enhanced water quality, and balanced water chemistry.









RHODOPHYTES:

ERYTHROLOBUS COXIAE

Research suggests that extracts from Erythrolobus coxiae exhibit anti-inflammatory properties that can help reduce inflammation and promote the general well-being of marine organisms in the aquarium. The unique composition of Erythrolobus coxiae, including fucoxanthin and other compounds, may offer protection against metabolic disorders associated with obesity and other toxins, and protect marine organisms from harmful substances in the aquarium environment.

PORPHYRIDIUM PURPUREUM

Porphyridium purpureum, a red marine microalgae, contains sulfated polysaccharides and antioxidants with anti-inflammatory and antioxidant effects. These properties may help reduce inflammation, neutralize free radicals, slow the aging process, and prevent cell damage in marine organisms in the aquarium. Porphyridium purpureum is rich in bioactive substances such as phycoerythrin, extracellular polysaccharides, and polyunsaturated fatty acids. These compounds provide essential nutrients for marine organisms in the aquarium, supporting their growth and overall health. Porphyridium purpureum can grow in both saltwater and freshwater. It thrives in saline waters but can also adapt to moist soils and other wet habitats. This adaptability makes it a versatile microalgae for various aquatic environments.







CHLOROPHYTES:

TETRASELMIS CHUI

Tetraselmis chui offers several benefits to a marine aquarium environment, particularly for corals. Research suggests that Tetraselmis chui has the potential to stimulate the immune system of fish, positively impacting the general health of marine organisms in the aquarium.

DUNALIELLA SALINA

Known for its high antioxidant content, especially carotenoids like beta-carotene, Dunaliella salina is a rich source of essential nutrients such as vitamins, minerals, fats, proteins, carbohydrates, and chlorophyll. It contains Omega-3 and Omega-6 fatty acids, linoleic acid, alpha-linolenic acid, and vitamin E. Dunaliella salina can support the vitality, general well-being, and immune system health of marine organisms. Its nutrient-rich composition contributes to the overall health of fish and other aquarium inhabitants.

CHLORELLA STIGMATOPHORA

Adding Chlorella to a marine aquarium can support nutrient supply, improve water quality, strengthen the immune system of marine organisms, aid in detoxification, and enhance growth performance. This algae species contributes to creating a thriving and balanced ecosystem in the aquarium environment.

CHLOROMONAS AUGUSTAE

Introducing Chloromonas augustae into a marine aquarium can stimulate feeding, provide biologically safe food, offer a high content of essential fatty acids, serve as enrichment for filter feeders, and provide a natural source of carotenoids.





	Phytoplankton	Size
25° 8	Tetraselmis chui	10 µm
	Conticribra weissflogii	5 µm
	Thalassiosira pseudonana	10 µm
ತ್ರಾ	Isochrysis galbana	10 µm
	Rhodomanas atrorosea	5 µm
(i)	Rhodomanas atrorosea	10 µm
	Rhodomanas maculata	10 µm
	Rhodomanas baltica	10 µm
. And the second	Chloromonas augustae	20 µm
10000 - 00000 10000000000000000000000000	Chlorella stigmatophora	10 µm
0°	Chloroidium saccharophilium	10 µm
ి తిల్లా కి ^{ల్లా}	Chlorella sp	10 µm
	Chlorocystis dangeardii	20 µm
200 C	Tetraselmis apiculata	10 µm
· • •	Tisochrysis lutea	5 µm
	Tetraselmis chui	10 µm
1	Dunaliella salina	10 µm
	Dunaliella primolecta	10 µm
	Porphyridium purpureum	5 µm



PHYTO A CONTAINS THE FOLLOWING MICROPLANKTON SPECIES:

		Ch	lorophylls	Chlorophylls	Carotenoids	Xanthophylls	Other		
6	Pro Provent	Dunaliella salina	main source of β -carot	ene)					
-	Ro CALE	a,c			$\alpha\text{-}\beta\text{-}$ and $\gamma\text{-}Carotene$	Lutein	Starch		
0	1010					Prasinoxanthin	(a -1,4-Glucan)		
0		Nannochloropsis oculata							
		a,c			$\alpha\text{-}\beta\text{-}$ and $\gamma\text{-}Carotene$	Lutein	Chrysolaminaran		
3						Prasinoxanthin	(a -1,4-Glucan)		
*0.0r	1. A.	Rhodomonas chrysoidea (Phycobilin-cryptomonads, phycocyanin, and phycoerythrin)							
PA C		a,c		Phycoerythrin-545	α-β- and ε-Carotene	Fucoxanthin-yellow	Chrysolaminaran		
	10.00			r-Phycocyanin		Violaxanthin-orange	(β-1,3-Glucan)		
0912	1					Zeaxanthin – orange			
J. C. Land						Diadinoxanthin – gold-brown			
J	1. 1. 1. 1.					Cryptoxanthin			
0		Diacronema lutheri	(pavlova)						
		a,c			α and β-Carotene	Fucoxanthin-yellow	Chrysolaminaran		
					•	,	, (β-1,3-Glucan)		
-							(p i)e eroediij		
0		Porphyridium cru	entum (main sour	e of various nutrients: Omega3, Omega6 fo		ine, valine); and carotenoids. The strain is very rich in Omega	3, Omega 6, and Beta-Carotene)		
0		a		r,b-Phycoerythrin	α and $\beta\text{-}Carotene$	Lutein	Floridean starch		
•				r-Phycocyanin			(a -1,4-Glucan)		
	No post			Allophycocyanin					
		Rhodomonas salina (Phycobilins – cryptomonad phycocyanin and phycocrythrin)							
 (i) (i)	A TO STORE	a,c		Phycoerythrin-545	$\alpha\text{-}$ $\beta\text{-}$ and $\epsilon\text{-Carotene}$	Fucoxanthin-yellow	Chrysolaminaran		
	Salar Sec.			r-Phycocyanin		Violaxanthin-orange	(β-1,3-Glucan)		
						Zeaxanthin-orange			
	Part Artic					Diadinoxanthin-gold-brown			
0	and the sta					Cryptoxanthin			
		Rhodomonos atro	rosea A (Phyco	bilins — cryptomonad phycocyanin and p	hycoerythrin)				
	C	a,c		Phycoerythrin-545	$\alpha\text{-}$ $\beta\text{-}$ and $\epsilon\text{-}Carotene$	Fucoxanthin-yellow	Chrysolaminaran		
0				r-Phycocyanin		Violaxanthin-orange	(β-1,3-Glucan)		
	Party and the					Zeaxanthin – orange			
0						Diadinoxanthin-gold-brown			
•						Cryptoxanthin			
		Rhodomonos atrorosea B (Phycobilins – cryptomonad phycocyanin and phycoerythin)							
	-	a,c		Phycoerythrin-545	α- β- and ε-Carotene	Fucoxanthin-yellow	Chrysolaminaran		
-	0			r-Phycocyanin		Violaxanthin–orange	(β-1,3-Glucan)		
	• ••					Zeaxanthin – orange			
	0					Diadinoxanthin-gold-brown			
	•					Cryptoxanthin			
0						Cryptoxanthin			



PHYTO A,B,C

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HYTO B CONTAINS THE FOLLOWING MICROPLANKTON SPECIES:

			Chlorophylls	Chlorophylls	Carotenoids	Xanthophylls	Other		
	and the	Tetraselmis apiculata Rich in fats: Omega 3, EPA, and ARA + High in Vitamin E • strong antioxidant • Omega-3 fatty acids • high nutritional value, and cell-tenewing effect. Benefits: prevents diseases and/or has a supportive effect during/after treatment of diseases • anti-inflammatory, disinfecting properties • strengthens the immune system of aquarium inhabitants • revitalizing effect • promotes the natural reproduction of important zooplankton • improves water quality - an important source of a-carotene							
			a,c		$\alpha\text{-}\beta\text{-}$ and $\gamma\text{-}Carotene$	Lutein	Starch		
	***					Prasinoxanthin	(a -1,4-Glucan)		
		Tetraselmis chui Rich in fats: Omega 3, EPA, and ARA + High in Vitamin E + strong antioxidant + Omega-3 fatty acids + high nutritional value, and cell-renewing effect. Benefits: prevents diseases and/or has a supportive effect during/after treatment of diseases + anti-inflammatory, disinfecting properties + strengthens the immune system of aquarium inhabitants + revitalizing effect + promotes the natural reproduction of important zooplankton + improves water quality							
and a			a,c		$\alpha\text{-}\beta\text{-}$ and $\gamma\text{-}Carotene$	Lutein	Chrysolaminarar		
						Prasinoxanthin	(a -1,4-Glucan)		
-	-	Microchloropsis gaditana							
0	3		a,c		$\alpha\text{-}\beta\text{-}$ and $\gamma\text{-}Carotene$	Fucoxanthin	Chrysolaminarar		
						Violaxanthin	(β-1,3-Glucan)		
		Nannochloro	psis oceanica						
	and the		a,c		$\alpha\text{-}\beta\text{-}$ and $\gamma\text{-}Carotene$	Lutein	Chrysolaminaran		
						Prasinoxanthin	(a -1,4-Glucan)		
		Rhodomonas	maculata						
0			a,c	Phycoerythrin-545	α-β- and ε-Carotene	Fucoxanthin-yellow	Chrysolaminarar		
				r-Phycocyanin		Violaxanthin-orange	(β-1,3-Glucan)		
	•					Zeaxanthin – orange			
	•					Diadinoxanthin – gold-brown			
						Cryptoxanthin			
~		Synechococcus leopoliensis ideal as food for filter feeders such as mussels and tube worms, LPS/SPS corals, sponges, and for enriching zooplankton							
0			a	c-Phycoerythrin	β-Carotene	Myxoxanthin	Cyanophycin		
2				c-Phycocyanin		Zeaxanthin	(Argin- and		
)				Allophycocyanin			Asparagin-Polymer		
				Phycoerythrocyanin			Cyanophycean		
							(a -1,4-Glucan)		
		Tisochrysis lu	tea Rich in fats: Omega	3, EPA, and ARA. High lipid content (DHA 8	EPA), highly nutritious, highly digestible as	it has no real cell walls			
5.	b.		a,c		α and β-Carotene	Fucoxanthin – yellow	Chrysolaminaran		
	-4						(β-1,3-Glucan)		
	0	Rhodomonas	baltica Phycobilins – ci	ryptomonad • phycocyanin and phycoeryt	rin				
0			a,c	Phycoerythrin-545	α-β- and ε-Carotene	Fucoxanthin – yellow	Chrysolaminarar		
000				r-Phycocyanin		Violaxanthin – orange	(β-1,3-Glucan)		
00						Zeaxanthin – orange			
	o					Diadinoxanthin – gold-brown			
						Cryptoxanthin			



PHYTO C CONTAINS THE FOLLOWING MICROPLANKTON SPECIES:

		Chlorophylls	Chlorophylls	Carotenoids	Xanthophylls	Other			
0	-	Chlorella stigmatophora							
0	1972 - C	a,c		$\alpha\text{-}\beta\text{-}$ and $\gamma\text{-}Carotene$	Lutein	Starch			
0				Prasinoxanthin	(a -1,4-Glucan)				
	÷. 0	Rhodella violacea							
and the	oh er	α	r,b-Phycoerythrin	α and $\beta\text{-Carotene}$	Lutein	Floridean starch			
HSIK	in		r-Phycocyanin			(a -1,4-Glucan)			
	12		Allophycocyanin						
	• • • • •	Skeletonema grethae							
· · · ·	÷ .	a,c		$\alpha\text{-}\beta\text{-}$ and $\gamma\text{-}Carotene$	Fucoxanthin	Chrysolaminaran			
	•				Violaxanthin	(β-1,3-Glucan)			
	0.	Chlorocystis dangeardii							
	· *	a,c		$_{\alpha \text{-}\beta \text{-}}$ and $_{\gamma \text{-}} Carotene$	Lutein	Starch			
0.3.					Prasinoxanthin	(a -1,4-Glucan)			
0		Chlorella sp.							
	•	a,c		$\alpha\text{-}\beta\text{-}$ and $\gamma\text{-}Carotene$	Lutein	Starch			
-	0				Prasinoxanthin	(a -1,4-Glucan)			
	4	Porphyridium sordidum							
-		a,c	Phycoerythrin-545	α-β- and ε-Carotene	Fucoxanthin-gelb	Chrysolaminaran			
A State	J.		r-Phycocyanin		Violaxanthin–orange	(β-1,3-Glucan)			
					Zeaxanthin – orange				
no.	1				Diadinoxanthin – gold-braun				
3.0					Cryptoxanthin				
	1 E 4	Chloroidium saccharophilum	n						
		a,c		α-β- and γ-Carotene	Lutein	Starch			
CY				Prasinoxanthin	(a -1,4-Glucan)				
1200	8 45	Chlorella ovalis A							
		a,c		α-β- and γ-Carotene	Lutein	Starch			
	· · ·				Prasinoxanthin	(a -1,4-Glucan)			
	a								



PHYTO A,B,C



FAQ

Do I need to add all three phyto variants simultaneously? Can I use just one bottle?

We recommend adding all three products for the best effect. The three phytoplankton mixtures are perfectly coordinated.

What happens if I add too much to my aquarium?

It could cause cloudiness in the water, but it is not harmful.

I have sediment in the bottle—has the plankton gone bad?

No, it is normal for plankton to settle. After gently shaking the bottle, it can be dosed again.

Can I mix all three bottles into one container and dose together?

Since the plankton species were selected based on growth rate, we recommend not mixing them together.

Can I add the phytos with a dosing pump?

The plankton should be gently shaken before addition and is therefore not recommended for use with a standard dosing pump.





STORAGE:

- Store refrigerated!
- DO NOT freeze.

SHELF LIFE:

PHYTO A, B, C is refrigerated and has a shelf life of approximately 6 months.

DOSAGE:

- 1 2 ml daily per 100 liters of aquarium volume.
- Gently shake PHYTO A, B, C before adding and pour it directly into a well-circulated area of the aquarium.





ADVICE:

Here you will find help and support for the product, as well as tips + tricks for marine aquariums:

Certified ICP Advisors: https://lab.faunamarin.de/de/advisor-list

Values + Dosage Calculator: https://lab.faunamarin.de/de/calc

Knowledge database for all chemical elements: https://www.faunamarin.de/wissensdatenbank/

Instructions/HTUs: https://www.faunamarin.de/support-downloads/

Facebook group: https://www.facebook.com/groups/1490705804549503/

YouTube Channel: https://www.youtube.com/@FaunaMarin_Official/videos

Email: Support@faunamarin.de

GOOD LUCK

FAUNA MARIN GmbH

