



**ARKA**<sup>®</sup>

## **INSTRUCTIONS** **CYANOBACTERIA**

The biological fight against cyanobacteria

## The biological fight against cyanobacteria

Please note that there can be no guarantee for successfully combating cyanobacteria in the aquarium, as cyanobacteria can have a variety of causes. It is therefore important to identify and eliminate them.

### What products do I need?

A



#### Special Blend

Contains the following bacterial strains, among others, which often help in the fight against cyanobacteria:

##### Rhodospirillum rubrum:

Photosynthetic bacteria fix the nitrogen from the nitrate breakdown and therefore compete with cyanobacteria, which can also fix nitrogen. Extremely good for preventing red cyanobacteria layers on the floor!

##### Thiobacillus denitrificans:

Photosynthetic bacteria reduce the nitrate resulting from nitrification to molecular nitrogen (gas). In combination with the above mentioned bacterium (Rhodospirillum rubrum) that fixes nitrogen, a cycle is created that makes it difficult for the cyanobacteria to get to a source of nitrogen.

B



#### Nite-Out II

The bacterial strains it contains additionally **disrupt the cyanobacteria metabolism** and settle on the surfaces which were previously settled by the cyanobacteria.

C



#### Zeopure Powder

The bacteria of **Special Blend** and **Nite-Out II** stick to the zeolite and thus spread even better in the aquarium.

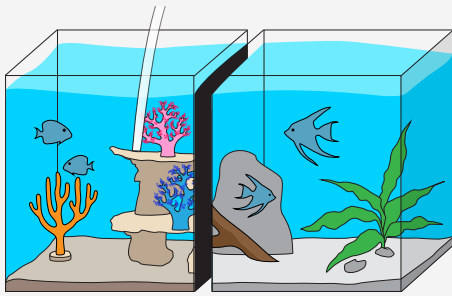
✓

#### Tips:

- Do **not use illuminants** with a **peak blue content of less than 360**, as this goes into the black light range and thus promotes cyanobacteria.
- In addition, **illuminating media with a greater red component** (usually to support colour) are also often a **trigger for cyanobacteria**.
- **Check your water values** and the ratios between them, such as **NO<sub>3</sub> Nitrate** to **PO<sub>4</sub> Phosphate**. An incorrect ratio, or water values that are too high or too low encourage the growth of cyanobacteria.
- Do **not add vitamins** or **amino acids** during the period of cyanobacteria infestation.
- Optimized **flow** and **aeration** will help to keep cyanobacteria away once eradicated.

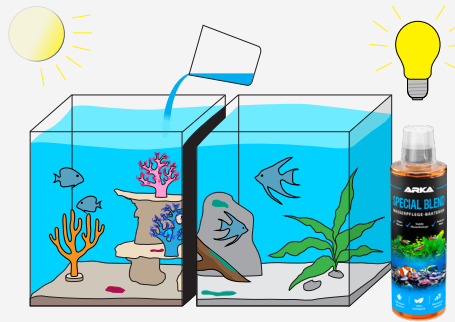
## Step by step:

A



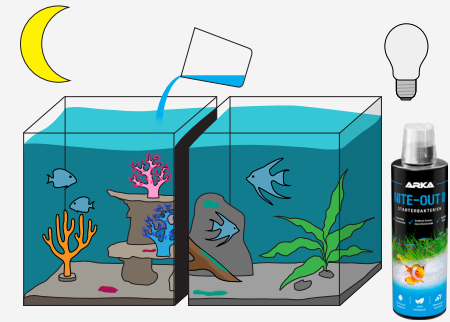
Remove the cyanobacteria as much as possible by mechanical means.

B






At the start of the light phase add **Special Blend** according to the dosing schedule.

C



Add **Nite-Out II** every other day (and daily if required) **just before or after the end of the light phase.**

## Dosing schedule to fight cyanobacteria

		Week				
		1	2	3	4	5
<b>NITE-OUT II</b> Starter Bacteria 		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Every other day, 10 ml/100 litres of water				
<b>SPECIAL BLEND</b> Water Care 		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		35 ml / 100 l of water		20 ml / 100 l of water		
<b>Zeopure Powder</b> 		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		50 ml solution / 100 l water daily (solution = 5 l canisters distilled water) + 5-10 tsp Zeopure Powder				

We recommend **continuing** to use **Special Blend** regularly according to the dosage indicated on the packaging.

The dosing mentioned above is an increased initial dosage, so depending on the dosing, it may have to be dosed to the end before you switch to **maintenance dosage.**



**Do you have other questions?**

Feel free to contact us on:

**ARKA**®

ARKA Biotechnologie GmbH  
Mülllach 53-55 • D-90552 Röthenbach  
Tel: +49 (0)911 / 56 98610-00  
info@arka-biotech.de  
www.arka-biotech.de

