

HOW TO USE

FAUNA MARIN REBIOTIC. 100% NATURAL.

A clean aquarium made possible!



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Our **continued research in the area of bacterial biotechnology** has allowed us to better understand the **aquarium's recovery process after experiencing Old Tank Syndrome** or a significant system change.

Our findings show that events like these are caused by **a collapse of important biofilms and/or significant changes in bacterial fauna**. When this happens, the bacteria's ability to effectively manage nutrients is compromised due to an imbalance. **As a result, this imbalance limits the aquarium's ability to effectively perform all nutrient cycle tasks.**

These issues can stem from carbon dosing, over-use of trace elements, and addition of pollutants. Many of today's products actually have a significant impact on bacterial stability and diversity in the aquarium. Restoring and maintaining bacterial stability is key to achieving a clean and healthy reef.

Here is where FAUNA MARIN **REBIOTIC** comes into play.

REBIOTIC is a 100% natural product that contains freeze-dried bacteria strains which must be activated before use in the reef aquarium.

These strains are kept in a **"sleep phase"** until ready to use.
The bacteria is then activated with water and poured into the aquarium.

In addition to the freeze-dried bacteria, REBIOTIC also contains **minerals** and **nutrients for the bacteria** to start working immediately after dosing.

REBIOTIC is 100% natural and does not contain antibiotics or fillers.

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Why REBIOTIC?

REBIOTIC is not your average bacteria-based product. It is not made for starting up a new aquarium, but is however made for normal bacterial dosages which help with nutrient reduction and management. REBIOTIC helps **restore the biological balance of the aquarium** which may have been caused by sudden system changes and/or collapse of biofilms. It can also be used to **prevent biological imbalances**.

Despite there being many methods for managing nutrient levels, very few show long-term benefits. For example with simple carbon dosages, one may initially see positive results, but then later experience issues with algae, cyano, and coral health. We find that each carbon dose actually inhibits certain types of bacteria while other types benefit. As a result, the aquarium experiences a bacterial imbalance and ends up having a **disrupted nitrogen cycle** which later leads to **excess nutritional values, excessive detritus production, excess bacteria and algae growth**, as well as **mass production of unwanted parasites**.

REBIOTIC targets the cause of the problem.

The bacterial strains contained in REBIOTIC are present in massive numbers. When REBIOTIC is dosed, the included minerals and nutrients **target damaged biofilms** and begin the **repairing them back to a healthy state**. These restored biofilms then help **eliminate unwanted deposits**. REBIOTIC also **displaces pathogenic germs** and **removes various organic substances** (DOC, AOC and TnB) that accumulate in the water over time.

An over accumulation limits coral growth and color potential and adds a considerable amount of pollution to the water. When dosing REBIOTIC, your aquarium is **cleared of these substances** and your corals are allowed to **breathe without the presence these limiting compounds**.

REBIOTIC bacteria settle in the rocks and substrate and form a healthy biofilm. In doing so, they remove nutrients and excess minerals from the water. **The result is a healthy smelling aquarium that is clean and clear.**



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How does REBIOTIC work?

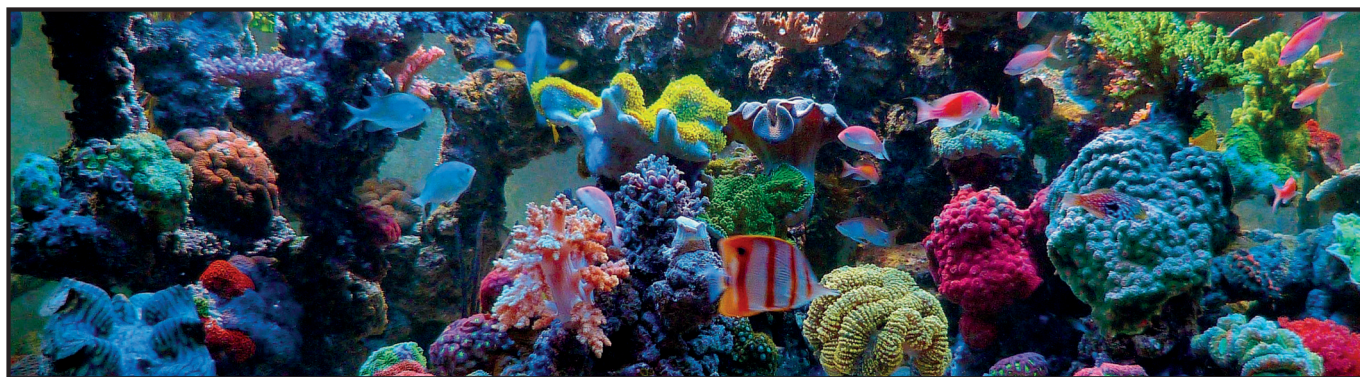
REBIOTIC is sourced from true biofilms. The bacteria within are **gently dried and immobilized by lyophilization.** This process allows the bacteria to live for **3 years without problems** and **is easily reactivated by adding water and oxygen.**

Since REBIOTIC consists of freeze dried bacteria, it is **extremely concentrated** and **contains trillions of bacteria.** The bacteria found in REBIOTIC are specifically chosen to effectively restart the aquarium's nutrient cycle and support existing biofilms. As healthy biofilms are repaired and developed, unwanted bacteria and algae are automatically displaced.

It is also important to note the degradation of **long-chain organic substances** which accumulate in the aquarium. These substances typically come from residues left behind by food and coral secretions. Fauna Marin was the first company to report on this finding at the beginning of 2000 which lead to developing corresponding tests (DepoTest, heat test). Our findings and tests have allowed us to find the **exact bacteria responsible for splitting up and breaking down these degradation products.** It is this strain and others that are found in REBIOTIC.

In order to maintain the effects of REBIOTIC, a weekly dosage after the initial treatment is sufficient.

Since this product contains only natural bacteria, there is **no danger to humans and animals.**



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Application and dosage

Application:

Take a container and collect **1 liter of aquarium water**, then pour the bacterial cultures into this container.

Stir well several times to activate bacterial cultures.

After 1 hour, slowly pour the activated bacterial solution **directly** into a **high-flow** area of the aquarium.

Turn off skimmer for the next **6 hours**.

Leave UV and OZONE switched OFF for approximately **48 hours**.

Dosage:

1 heaping teaspoon (about 5g) per 400 liters (105 US gal) of aquarium volume.

Initial dose: 2x per week for 4 – 6 weeks.

Afterwards, it is sufficient to provide a maintenance dose every 4 weeks.



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How can you combine REBIOTIC?

REBIOTIC is intended as a cure for bacterial imbalances.

It can be used safely **with any kind of filtration system** and requires **no special precautions**.

As a general guideline, **results are typically noticed within 2 to 6 weeks**.

Older aquariums with a high depot value may require more time or a higher dosage.

We have **extensively tested REBIOTIC in our coral breeding plants and our lab** and found that our product can be used in **over 97% of aquariums with clear, recognizable success**.

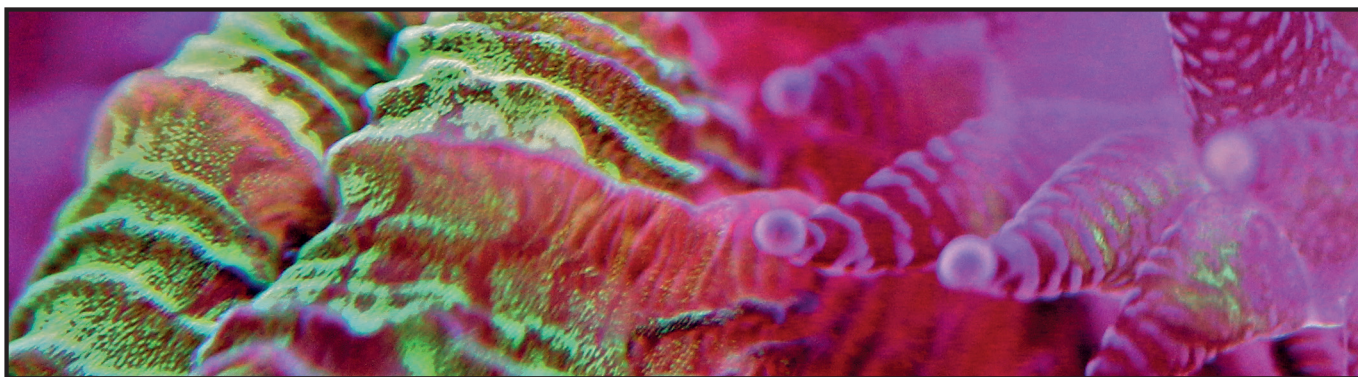
WARNING:

REBIOTIC should NEVER be dosed alongside another foreign bacteria-based product.

During the REBIOTIC cure phase, adjust all other bacteria dosages accordingly.

After the 2 – 6 week cure phase, you can stop dosing REBIOTIC and continue using other FAUNA MARIN bacteria-based products.

Normal aquarium maintenance routines remain unchanged.



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Frequently asked questions...

➡ What is the shelf life of REBIOTIC?

When stored in a **cool** and **dry place**, the REBIOTIC bacteria is stable for **2 – 3 years**.

➡ For how long should I dose the bacteria in my aquarium?

As a general rule, a cure can take **2 – 6 weeks**. On rare instances are further dosages necessary.

➡ Is it possible to overdose REBIOTIC?

NO. Even a dosage 5x the amount will not hurt the animals.

Of course, you should **ALWAYS** ensure that the water is **enriched with oxygen** and **that the skimmer is immediately turned ON after the 6-hour off period**.

Make sure to dose according to the recommended dosage amounts based on your aquarium size. For more severe issues, you can safely double the dosage. Always pay attention to the **water values** and remember that the introduced bacteria also consume nutrients and trace elements. **Make dosage changes accordingly and avoid limitations.**

➡ Why does the UV and skimmer have to be turned OFF after dosing?

After each dose, the freshly activated bacteria need some time to settle into the substrate and rocks.

During this time, the bacteria should **not be skimmed off or killed by the UV**.

Switch OFF the UV and skimmer during treatment.

Flow filters and media reactors should also be shut OFF or bypassed.

➡ Why doesn't REBIOTIC dissolve completely?

Bacteria cannot and should not completely dissolve.

The enzyme stores minerals which slowly dissolve into the system until the next dosage.

➡ Is REBIOTIC bacteria good for starting an aquarium?

Although this product can be used for starting an aquarium, **we recommend doing so with live rock**. If the aquarium is to be started without live rock, we recommend using **BACTO BLEND** instead.

➡ Do I have to dose REBIOTIC permanently?

NO! After a successful cure, it is enough **dose once a month for a maintenance dose – only if necessary**. For a permanent bacteria-based dosage after a cure, we recommend using **BACTO BALLS**.

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Overview of our different bacteria products:



1. BACTO BLEND

Mixed liquid bacterial preparation for general use in **starting a reef aquarium, nutrient reduction, or general support** for all types of reef aquariums.



2. BACTO THERAPY

Mixed liquid bacterial preparation which **treats pathogenic bacteria, undesirable nutrient deposits, and odors** from water.



3. BACTO BALLS

Gel spheres with reef bacteria which serve to **reduce nutrient deposits and clarify water** in all types of fish and reef aquariums.

Bacto Balls only have to be dosed every 2 – 3 weeks for nutrient control.



4. REBIOTIC

Freeze-dried special bacteria for use as a **4 – 6 week cure**.

Rebuilds healthy biofilms and serves as a means of **removing unwanted organic substances and nutrient compounds**.

REBIOTIC removes and prevents unwanted algae growth.

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REBIOTIC is a **very effective product** and should only be used selectively.

Biological processes in reef aquariums are very complex. There are some instances where the application of bacteria is not sufficient or meaningful. One should always take great care when dosing bacteria in very nutrient-limited systems. You should be careful with the addition of such tools and seek advice beforehand.

For **more information or individual advice**, please write to us directly on our support forum:
<http://forum.faunamarin.de>

Further instructions, information on animals and our products can be found on our website's download center:

<https://www.faunamarin.de/download-center/>

Wishing you much success!

FAUNA MARIN GmbH

