



Knowledge grows

BIOTRYG™



Biostimulant technology
for better crop solutions



BIOTRYG™



The world is facing increasing changes and challenges. One of these is population growth; by 2050 there will be more than 9 billion people on this planet and we will need to produce 50% more food in order to feed this growing population. This is in addition to climate change, global warming, drought, high and low temperatures that change without suitable warning, water scarcity and deforestation. Unfortunately, these challenges tend to increase with time and growth. But Yara is committed to start acting on this right away.

With more than 100 years of experience and knowledge, and a brand recognized around the world, we at Yara are dedicated to responsibly feeding the world and protecting the planet, supporting farmers' growth and profitability through sustainable crop nutrition solutions to increase quality and yield.

Yara is therefore launching a new technology: **BIOTRYG™**, the platform for biostimulants.



Up to 10% of yield can be lost during an event of drought or heat stress



3 billion tonnes grain harvest lost due to heat and drought stress over the last 50 years



3% Amount of fresh water on our planet



70% Amount of fresh water agriculture utilises



Developing your crop's natural potential

The bottleneck for boosting crop production frequently goes beyond crop nutrition. This, together with the increasing exposure of crops to different types of abiotic stress made Yara decide to broaden our offer to meet the farmer's needs.

The **BIOTRYG™** technology triggers the natural plant processes that enhance nutrient use efficiency as well as acting on specific processes in crop metabolism. Improved plant growth and abiotic stress tolerance help the plants to remain vigorous in hostile growing conditions so the farmer can generate better yield and quality.

The performance and success of Yara's **BIOTRYG™** technology is based on three pillars:

Knowledge



Our extensive knowledge on farmer needs, nutrient formulation, and experience and leadership in crop nutrition put Yara in a unique position to bring the best and complete solutions to farmers - the perfect combination!

Technology and Innovation



Through strategic collaboration and investigation at our Research & Development center, we have a range of high quality, innovative products developed to meet farmers' needs.

Our products in the YaraVita and YaraTera portfolio are developed by Yara's Product Development Chemists to satisfy the specific application for which they are intended.

Sustainability



BIOTRYG™ acts when the crop most needs it, supporting the crop's natural processes and enhancing its performance.

It is sustainable for:

- the environment, allowing higher production while using the same amount of land, and reducing waste by improving the quality of produce;
- the farmers, keeping their business profitable even during tough conditions;
- the planet, supporting food production in the current, challenging situation.





BIOTRYG™

Bio-stimulant technology

BIOTRYG™ technology improves nutrient use efficiency, tolerance to abiotic stress and crop quality and complements Yara's complete range of high quality and innovative crop nutrition solutions. Applied when the crop needs it most, it works in synergy to keep the farmer's business profitable and sustainable.

Our investment in research and development means that Yara offers much more than just fertilizer – we offer advice, the latest scientific knowledge and a partnership with our farmers that sees results. Taking advantage of our solutions will help farmers to achieve success in their farms.

The **BIOTRYG™** technology will be present in a wide variety of products in the **YaraVita** and **YaraTera** portfolios:



Why is BIOTRYG™ the best option for farmers looking for a complete solution?

- ✓ Triggers the natural plant processes, enhancing nutrient and crop quality
- ✓ Helps the plant to perform to its full potential, even under stressful conditions
- ✓ Fully supported by Yara's complete range of high quality and innovative crop nutrition solutions

The **BIOTRYG™** technology is developed by Yara, the world's leading fertilizer brand.

Our rigorous quality control ensures consistency and performance. We do whatever is necessary to ensure that what arrives in the field is of the highest quality.



About Yara

In collaboration with customers and partners, Yara grows knowledge to responsibly feed the world and protect the planet, to fulfill its vision of a collaborative society, a world without hunger and a planet respected.

Our crop nutrition solutions and precision farming offerings allow farmers to increase yields and improve product quality while reducing environmental impact. Our environmental and industrial solutions improve air quality and reduce emissions, and are key ingredients in the production of a wide range of products.

We foster an open culture of diversity and inclusion that promotes the safety and integrity of our employees, contractors, business partners, and society at large.

Founded in 1905 to solve emerging famine in Europe, Yara has a worldwide presence with more than 17,000 employees and operations in over 60 countries. In 2017, Yara reported revenues of USD 11.4 billion.



Yara International ASA
Drammensveien 131
N-0277 Oslo
Norway
Tel: +47 24 15 70 00
Fax: +47 24 15 70 01

© 2019 Yara. All rights reserved.

August 2019



LEGAL NOTICE

Yara International ASA and/or its group companies (collectively "Yara") make no express or implied warranty or representation concerning the accuracy or completeness of this document or the information contained in it. Information contained in this document is to the best of Yara's knowledge correct and accurate on the date of issuance. Any information provided is merely intended to serve as guidelines for the appropriate use, handling and storage of our products and may not be deemed as a guarantee or indication of quality, or serve as a basis for liability towards Yara in any way whatsoever. Any drawings, descriptive matter or illustrations contained in this document are provided for the sole purpose of giving an approximate idea of the products described in them. This document and any information contained in it shall remain the property of Yara. No rights, including, but not limited to, intellectual property rights, in respect of this document are granted to any recipient. Yara reserves the right to adjust and revise this document at any time. Please refer to our General Terms and Conditions for more information on legal matters.