



2024

# BioNutria

DANMARK



AGRICULTURE · GOLF · GARDEN  
PARK & STADIUM

## AGRICULTURE CONVENTIONAL & ORGANIC

Adding the right nutrients formulated with the right raw materials in the right quantities and at the right time makes plants both healthier and stronger. This enables a better resistance to disease, a better ability to compete with weeds and a better resistance to drought and frost.

When nature and science go hand in hand.

Nutrients with the market's most  
unsurpassed plant uptake.

***Quality does not cost – it pays!***

# Welcome to a world of micronutrients that make a difference



### Welcome to our 2024 catalogue

We have expanded our catalogue by four pages due to the new and exciting areas we are moving into. We have structured it so that it is easy to see what products we have – both for conventional and organic farming – as well as crop recommendations showing what products and quantities we recommend. We present our testing, including foliar fertilisation tests using liquid N fertiliser. A fascinating concept which we believe will spread rapidly.

Our goal is for you as a farmer to achieve a significantly better net economic yield while reducing your use of pesticides and thereby significantly reducing the negative impact on the environment.

### TRIPLEX strategy

It is very clear that crops treated with micronutrients according to our TRIPLEX strategy live up to the goal of good additional yields. We hear this from customers everywhere, and it applies to many different crops. See, for example, the testimonial from Schackenborg on page 22.

Despite a challenging and far from optimal growing season, the added financial yield has often been 35-70 Euro per hectare using the TRIPLEX strategy. If you add to this the savings on pesticides achieved from using Bio pH Control, the net financial yield increases even more per ha. At the same time, the negative environmental impact is reduced by 30–50%.

### Test - Bio pH Control

We highly recommend studying the experiments closely. Try inputting your own pesticide prices to see how much money you can save on chemicals. If you like, contact our AgroTeam to speak to a skilled and experienced sparring partner.

### Leaf fertilisation with nitrogen

The experiments you see on page 14 are truly exciting, to say the least. Note the yields and, especially, the column with N utilisation. It is both surprising and very exciting that such a large increase in N utilisation is achieved. There is huge potential, both economically and environmentally.

In the coming growing season, we will be conducting tests to investigate whether similar results can be achieved under Danish conditions. But purely on the basis of the experiments on page 14, I would like to encourage all farmers to test the strategy – possibly on a smaller area and preferably on different crops. In any event, the concept that we should fertilize the plant and not the soil is very appealing.

### Organic farming

In 2023, we put together the market's largest product range of micronutrients and trace elements for use in organic farming. The programme – consisting of 11 products – is composed of three products that are not our own, while the remaining eight are from our own production.

Finally, we would like to thank all our customers for the year gone by and bid them welcome to a new and exciting growing season in 2024 and the most complete fertilizer concept on the market – at highly competitive prices.

To be able to provide all our customers with professional personal service, we have hired five more highly competent employees to our AgroTeam. So, whether you just need advice, want to schedule a visit or order products, just call or write us. We are happy to help and are never more than a phone call away.

**Pleasant reading,**  
Ove Andersen

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# Product overview conventional farming

## Nutrients with the market’s most unsurpassed plant uptake

All BioNutria’s products are formulated as genuine solutions with low pH levels. To optimise both the absorption and effect of the added nutrients, all BioNutria’s micronutrients for conventional farming contain at least two additives and always contain a spray binding agent – however not BioNutria Bor 150.

### BioMangan 180 NS

	Total N	CO(NH <sub>2</sub> ) <sub>2</sub>	S	Mn	Density	pH
g/l	24.31	24.31	106.25	178.04		
Weight percent	1.70	1.70	7.43	12.45	1.43	6.07

### BioMangan 170 NS<sup>P</sup>

	Total N	CO(NH <sub>2</sub> ) <sub>2</sub>	P2O5	S	Mn	Density	pH
g/l	24.82	24.82	18.25	104.97	179.58		
Weight percent	1.70	1.70	1.25	7.19	12.30	1.46	0.46

### BioCrop Opti<sup>XL</sup>

	Total N	CO(NH <sub>2</sub> ) <sub>2</sub>	S	Mn	MgO	Cu	Zn	B	Fe	Mo	Density	pH
g/l	21.93	21.93	74.18	25.80	38.70	1.29	1.29	2.58	12.90	0.013		
Weight percent	1.70	1.70	5.75	2.00	3.00	0.10	0.10	0.20	1.00	0.01	1.29	2.70

### BioCrop Opti<sup>ML</sup>

	Total N	CO(NH <sub>2</sub> ) <sub>2</sub>	S	Mn	MgO	Cu	Zn	B	Fe	Mo	Density	pH
g/l	20.06	20.06	37.64	11.80	17.70	1.18	2.36	2.12	11.80	0.012		
Weight percent	1.70	1.70	3.19	1.00	1.50	0.10	0.20	0.18	1.00	0.01	1.18	2.50

### BioCrop Opti<sup>P</sup>

	Total N	CO(NH <sub>2</sub> ) <sub>2</sub>	P2O5	S	Mn	MgO	Cu	Zn	B	Fe	Mo	Density	pH
g/l	22.44	22.44	16.50	75.24	26.40	39.60	1.32	1.32	2.64	13.20	0.013		
Weight percent	1.70	1.70	1.25	5.70	2.00	3.00	0.10	0.10	0.20	1.00	0.01	1.32	1.77

### BioCrop Potato<sup>P</sup>

	Total N	CO(NH <sub>2</sub> ) <sub>2</sub>	P2O5	S	Mn	MgO	Cu	Zn	B	Fe	Mo	Density	pH
g/l	20.91	20.91	15.38	47.36	12,30	24.60	1.23	2.46	1.11	12.30	0.012		
Weight percent	1.70	1.70	1.25	3.85	1.00	2.00	0.10	0.20	0.09	1.00	0.01	1.23	1.66

### BioKobber 70

	Total N	CO(NH <sub>2</sub> ) <sub>2</sub>	S	Cu	Density	pH
g/l	20.06	20.06	35.64	70.80		
Weight percent	1.70	1.70	3.02	6.00	1.18	3.21

### BioZink 115

	Total N	Zn	Density	pH
g/l	24.00	115.00		
Weight percent	1.67	7.99	1.44	5.68

### BioKalium 100

	K2O	Density	pH
g/l	100.80		
Weight percent	9.00	1.12	6.50

### BioMo 120

	Total N	Mo	Density	pH
g/l	20.66	122.85		
Weight percent	1.64	9.75	1.26	1.03

### BioMagnesium 50

	Total N	CO(NH <sub>2</sub> ) <sub>2</sub>	S	MgO	Density	pH
g/l	21.25	21.25	68.63	52.13		
Weight percent	1.70	1.70	5.49	4.17	1.25	5.32

### BioSelen 5

	Se	Density	pH
g/l	5.00		
Weight percent	0.45	1.11	10.78

### BioNutria Bor 150

	B	Density	pH
g/l	150.00		
Weight percent	11.03	1.36	8.10

### BioNutria Jern 75

	Fe	Density	pH
g/l	75.00		
Weight percent	6.50	1.20	1.63

### BioNutria Cobolt 30

	Co	Density	pH
g/l	30.00		
Weight percent	2.78	1.081	6.01

## STARTER FERTILISER

### Bio P11

	P2O5	Density	pH
Weight percent	11.00	1.23	0.99

### Bio NP 5-8

	Total N	CO(NH <sub>2</sub> ) <sub>2</sub>	P2O5	Density	pH
Weight percent	5.00	5.00	8.00	1.19	1.51

## LEAF FERTILISER

### Bio NS 15-2

	Total N	CO(NH <sub>2</sub> ) <sub>2</sub>	NH <sub>4</sub>	S	Density	pH
Weight percent	15.00	12.90	2.10	2.40	1.14	5.94

### Bio NS 15-2<sup>Carbon</sup>

	Total N	CO(NH <sub>2</sub> ) <sub>2</sub>	NH <sub>4</sub>	S	Density	pH
Weight percent	15.00	12.90	2.10	2.40	1.14	5.94

### Bio NP<sup>Boost</sup>

	Total N	P2O5	Density	pH
Weight percent	5.04	10.00	1.24	1.62

## ADDITIVES

### Bio pH Control

	Density	pH
Weight percent	1.23	0.37

### Bio Ammoniumsulfat

	N	S	Density	pH
Weight percent	8.20	9.30	1.23	6.20

### BioMangan 180 NS

A premixed, high-quality manganese solution. Also contains nitrogen and sulphur.

### BioMangan 170 NS<sup>P</sup>

The market’s only manganese agent with built-in pH control. Used with hard water and when mixing with boron. Unique mixing properties.

### BioCrop Opti<sup>XL</sup>

Formulation with a very high content of Manganese, Magnesium and Sulphur. Used in all crops as a preventive treatment against nutrient deficiencies.

### BioCrop Opti<sup>P</sup>

BioCrop Opti<sup>P</sup> is used in all crops as a preventive treatment against nutrient deficiencies. Has a pH-lowering effect.

### BioCrop Opti<sup>ML</sup>

Special formula for corn, onion and vegetable cultures. Rich in zinc.

### BioCrop Potato<sup>P</sup>

Special formula for potatoes that is rich in zinc and phosphorus.

### BioKobber 70

Effectively remedies and prevents copper deficiency in all crops. Special formula that is rich in directly plant-accessible copper and sulphur.

### BioZink 115

Highly concentrated zinc fertiliser. Effectively remedies and prevents zinc deficiency in all crops.

### BioKalium 100

Potassium solution that quickly replenishes low potassium levels in all crops..

### BioMo 120

Highly concentrated molybdenum fertiliser. Effectively remedies and prevents molybdenum deficiency in all crops.

### BioMagnesium 50

A high-quality magnesium solution formulated on the basis of directly accessible magnesium. Also contains sulphur.

### BioSelen 5

A high-quality selenium solution that increases the grass’s selenium levels and thus effectively combats selenium deficiency in grass-eating animals.

### BioNutria Bor 150

Liquid boron fertiliser for boron-dependent crops such as rape and beets. Optionally, supplement with BioCrop Opti<sup>XL</sup>/Opti<sup>P</sup> to cover the need for other micronutrients. Unique blendability. Always remember to lower the pH.

## Product descriptions

### BioNutria Jern 75

Highly concentrated iron fertiliser. Effectively remedies and prevents iron deficiency in all crops.

### BioNutria Cobolt 30

Highly concentrated. Remedies and prevents cobalt deficiency. Used for all crops that have symbiosis with tuber bacteria, as well as for feed crops for ruminants.

## STARTER FERTILISER

### Bio P11

Starter fertilizer for potatoes and corn. Pure phosphorus fertiliser for use when planting. Can be mixed with dressing agent. Requires equipment that tolerates low pH fertiliser..

### Bio NP 5-8

Liquid starter fertilizer for potatoes and corn. Test mixture recommended for mixing with liquid dressing agent. Requires equipment that tolerates low pH fertiliser.

## LEAF FERTILISER

### Bio NS 15-2

A liquid pH-optimised leaf fertiliser.

### Bio NS 15-2<sup>Carbon</sup>

Is a liquid pH optimized foliar fertilizer. Added sucrose that is a source of carbon (C).

### Bio NP<sup>Boost</sup>

Phosphorus boost for use in growing crops. Effectively remedies and prevents phosphorus deficiency in all crops.

## ADDITIVES

### Bio pH Control

Bio pH Control is a unique product composed of no fewer than four active ingredients. The product resolves problems with hard water simply, economically and extremely effectively. The plant’s absorption of pesticides and nutrients is increased to astonishing levels, which means pesticide use can be reduced by 30–50%, and often far more.

### Bio Ammonium sulphate

Bio Ammoniumsulfat contains additives and is pH-lowered to avoid ammonia evaporation. It has been used for years to increase the effect of glyphosate, MCPA and certain growth-regulating agents etc. Nationwide tests have documented increased effect of glyphosate and MCPA of up to 30%.



# Crop recommendations

Our micronutrients are used as a guarantee against deficiencies.

Therefore, our general recommendation is to use 2–3 L BioCrop Opti<sup>XL</sup>/BioCrop Opti<sup>P</sup> and 1–2 L BioMangan 180 NS/BioMangan 170 NS<sup>P</sup> in all crops 3–6 times during the growing season. Often supplemented with 1–2 L BioNutria Bor 150. Contact our AgroTeam for further information.

GRAIN – winter crop	BioMangan I /ha	BioBor 150 I/ha	BioCrop Opti <sup>XL/P</sup> I/ha
October: st. 12-14	2		
November: st. 14-21	1		2
Early spring: st. 25-30	1.5		2
April: st. 31-32	1		3
May: st. 32-39 Triplex strategy	1	1	3
June: st. 51-59			3

GRAIN – spring crop	BioMangan I/ha	BioBor 150 I/ha	BioCrop Opti <sup>XL/P</sup> I/ha
April: st. 14-21	2		2
May: st. 31-32	1		2
May: st. 32-39 Triplex strategy	1	1	3
June: st. 51-59			2

RAPE – winter crop	BioMangan I/ha	BioBor 150 I/ha	BioCrop Opti <sup>XL/P</sup> I/ha
April: st. 16	2	1	2
May: st. 19	1	2	2
May: st. 30	1	1	3
June: st. 50-57			3

RAPE – spring rape	BioMangan I/ha	BioBor 150 I/ha	BioCrop Opti <sup>XL/P</sup> I/ha
April: st. 16	2	1	2
May: st. 19	1	2	2
May: st. 30			2
June: st. 50-57			2

SUGAR BEET	BioMangan I/ha	BioBor 150 I/ha	BioCrop Opti <sup>XL/P</sup> I/ha
May: st. 12-15	2	1.5	2
June: st. 30	2	1.5	2
July: st. 48		1.5	2
August: st. 48 (1st fungicide application)			2
August: st. 48 (2nd fungicide application)			2

CORN	BioMangan I/ha	BioBor 150 I/ha	BioCrop Opti <sup>ML</sup> I/ha
May: st. 15-16	2	2	3
June: st. 34	2	2	3
July: st. 53			3

POTATOES	BioMangan I/ha	BioCrop Potato <sup>P</sup> I/ha	Bio NS 15-2 I/ha
3 weeks after germination	1.5	3	
For the 1st fungicide application	1.5	3	
For the subsequent 4–5 fungicide applications		3	
When late fertilisation is needed (repeat if needed)			45

## TRIPLEX strategy – a revolution in grain cultivation

In cereal crops, BioNutria's TRIPLEX strategy results in uniform, healthy crops with stiff straws and often significant additional yields of between 250 kg/ha and 2,500 kg/ha.

The visible effects on the plants are: 50% larger flag leaves, larger spikes with larger grains and a big effect on the straw stiffness of the plants. Therefore, the TRIPLEX strategy has now become part of our standard recommendations for grain.

The BioNutria TRIPLEX strategy consists of 1 L BioNutria Bor 150, 1 L BioMangan 180 NS/170 NS<sup>P</sup> and 3 L BioCrop Opti<sup>XL</sup>/Opti<sup>P</sup> per ha in one application during the grain's stretching phase.

Application can take place in connection with fungicide or herbicide spraying so there are no extra application costs tied to the treatment.

The results are impressive, and the net economic benefit of the treatment is often very substantial.





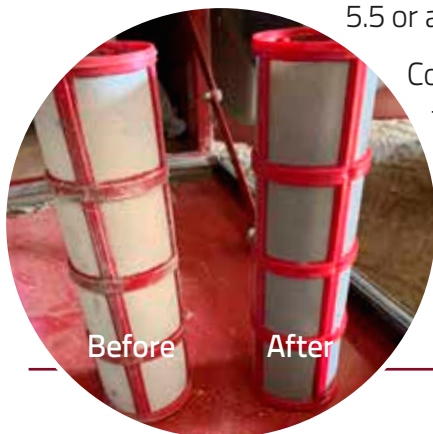
# Reliable effect of your spraying agents

## Bio pH Control

If you have problems with hard water and a high pH in the spraying liquid – Bio pH Control is the solution; it can often reduce pesticide consumption by 30–50%.

Some crop protecting agents are very unstable at a pH over 8. That is particularly true of beet agents and pesticides. Others have an optimal pH between 5 and 5.5 or as low 3 and below.

Contact our AgroTeam for further information.



Generally, between 0.1–0.3 l. per 100 L of water is used. The exact dosage depends on the hardness and pH value of your water and therefore we recommend that you buy a pH meter so you can easily find the exact amount to add.

Bio pH Control is the market's absolute cheapest and most efficient product for lowering the pH in spray liquids.

At the same time, Bio pH Control ensures that your sprayer is always clean and you will enjoy no longer having problems with clogged nozzles and filters.

The sprayer is as clean as a new one inside.

## Getting started with pH Control

If you have hard water, you are sure to have deposits in your sprayer, even if you use a cleaner. Most – if not all sprayer cleaner products – are alkaline and do not clean/dissolve  $\text{CaCO}_3$  and  $\text{MgCO}_3$  deposits.

*Bio pH Control effectively dissolves all  $\text{CaCO}_3$  and  $\text{MgCO}_3$  deposits in the sprayer. It is therefore very important that you follow the cleaning procedure below before spraying.*

### Cleaning the sprayer

1. Pour 200–400 L of water in the sprayer.
2. Add 0.5 L Bio pH Control/100 L water and let it circulate in the sprayer for 30 minutes.
3. Remove nozzles and filters, then flush out the liquid.
4. Repeat the process if necessary.

After cleaning, the sprayer is just as clean inside as a new sprayer.

### How to use Bio pH Control when spraying BioNutria micronutrients and pesticides

1. Pour the desired amount of water in the sprayer and start mixing.
2. Add Bio pH Control in the recommended dose – normally between 0.10–0.30 L/100 L water.
3. Add BioNutria's micronutrients (but not boron).
4. Add pesticides (Betanal can also be used without any problem).
5. Add boron (if needed).

Contact our AgroTeam for further information.

# Optimal blendability

Blendability is one of the issues we get a lot of questions about. Generally, our products are very blendable and incorporate into the planned spraying without a problem. There are limits, however, to how many and what components you can blend. The water hardness also means a great deal for blendability.

We are sharing our advice about blending here:

- Always follow our instructions for blending sequence – you will find it at [bionutria.eu](https://bionutria.eu)
- Boron and manganese in the same spray requires a lower pH.
- Never blend more than two plant protection agents.

- Make a test mixture in a glass or bucket if in doubt.
- Have plenty of water in the sprayer before blending.
- Blend while mixing and spray immediately after blending.
- Establish a fixed routine for maintenance and cleaning of the sprayer and its filters.
- Use copper products specifically.

We refer to [bionutria.eu](https://bionutria.eu), where you will find blending tests and further instructions for mixtures.

## Huge benefits from BioNutria's products

Gustav Lewenhaupt cultivates about 780 hectares of land, of which 150 hectares are leased. The soil is cultivated without tilling and with a focus on sustainability. Reduced soil treatment (no-till) is necessary because the clay levels at Lönhult Farm are very high.

"We have practiced reduced soil treatment for the past 15 years. We have excellent soil that is high in nutrients, but the high pH of the soil reduces the availability of these nutrients. That is why it is very important that we add micronutrients during the growing season.

Our experience with BioNutria's Bio pH Control and micronutrients is very positive. The products are easy to work with and have given an extra boost to both plant protection products and, not least, the crops. There have been no problems mixing in plant protection products.

In particular, we have been able to reduce the use of insecticide, growth regulation and fungicide sprays by 30–50%. The sprays have worked incredibly well when the pH of the mixtures is adjusted with Bio pH Control.

The plan for the coming season is to spray Bio-Mangan 170 NS<sup>P</sup> and BioCrop Opti<sup>P</sup> twice in the autumn and to follow up again in the spring. For winter wheat, we add extra Bio Bor 150 together with the fungicide sprays, to strengthen growth and straw stiffness.

We expect a significantly improved effect against fox-tail by adding Bio pH Control to our herbicide spray this autumn.

At Lönhult Farm, we are aiming for a future with much more precision farming, based on data-based programmes and personal efforts. It is important for us to align the crops and yields, and we are certain that BioNutria products are the way forward."

**Gustav Lewenhaupt, Lönhult Farm, Helsingborg**  
Lönhult Farm comprises 630 hectares of farmland north of Helsingborg plus about 150 hectares of leased land. Autumn crops are grown on the land – autumn wheat and rape, as well as faba beans, hemp, peas and oats – mostly for breeding. The machinery consists mainly of Horsch machines for tillage, sowing and spraying.





# Tests



## Glyphosate test

We have conducted tests in different crops with Bio pH Control and with Bio Ammoniumsulfat. The results are shown below.

It is a fact that lowering the pH of the sprayer liquid increases the effect of pesticides significantly. The increased effect makes it possible to reduce pesticide consumption by 30-50%.

The amount of Glyphosate can be reduced even more. Especially when pH reduction with Bio pH Control is enhanced by adding Bio Ammoniumsulfat.

When spraying glyphosate, we therefore recommend always lowering the pH with Bio pH Control and, at the same time, adding Bio Ammoniumsulfat.

**Test 1: Bio pH Control and Bio Ammoniumsulfat together with Glyphosate in established red fescue**

Treatment/dosage (20 days after treatment)	Effect in %
Glyphosate <sup>1</sup> 3 ltr. + Bio pH Control + Bio Ammoniumsulfat	90
Glyphosate <sup>1</sup> 1,5 ltr. + Bio pH Control + Bio Ammoniumsulfat	90
Glyphosate <sup>1</sup> 0,75 ltr. + Bio pH Control + Bio Ammoniumsulfat	80
Glyphosate <sup>1</sup> 3 ltr.	80
Glyphosate <sup>1</sup> 1,5 ltr.	75
Glyphosate <sup>1</sup> 0,75 ltr.	65

Experiments with reduction of established red fescue, which is very difficult to wither, clearly show how much a lowering of pH in the spraying water means.

In addition, the experiment in waste drops shows that you achieve both a faster uptake and a better effect.

## Benefits of Bio pH Control

- *The uptake and thus the effect of pesticides is increased by 30-50% and often significantly more.*
- *Absorption of micronutrients increases significantly*
- *The lower use of pesticides gives the farmer often large financial savings.*
- *At the same time, the lower use of pesticides results in a much lower negative impact on the environment by 30-50% and often significantly more.*
- *The sprayer is always clean and you avoid clogged nozzles and filters.*

**Test 2: Bio pH Control and Bio Ammoniumsulfat together with Glyphosate in waste rape**

Treatment/dosage (6 days after treatment)	Effect in %
Glyphosate <sup>1</sup> 3 ltr. + Bio pH Control + Bio Ammoniumsulfat	99
Glyphosate <sup>1</sup> 1,5 ltr. + Bio pH Control + Bio Ammoniumsulfat	99
Glyphosate <sup>1</sup> 0,75 ltr. + Bio pH Control + Bio Ammoniumsulfat	95
Glyphosate <sup>1</sup> 3 ltr.	85
Glyphosate <sup>1</sup> 1,5 ltr.	80
Glyphosate <sup>1</sup> 0,75 ltr.	70

<sup>1</sup> Glyphosate 360 g/L.

<sup>2</sup> pH reduced to 3.1 with 0.15 L Bio pH Control.

<sup>3</sup> Ammoniumsulfat 2 L/ha – does not lower pH.

Treatment/effect in % 20 days after treatment.

Grass test conducted by Agrolab.

## Fighting grass weed in winter crops – autumn

In winter crops BioNutria has conducted several tests to lower the pH of the spray water using Bio pH Control and shown that the effect can be significantly increased.

The effects on common windgrass were improved with Boxer, Mateno Duo and Adimax.

Boxer	Effect in % on grass weeds, mostly windgrass			
Dosage Boxer L	1.5	1	0.75	0.5
Boxer	50	40	10	0
Boxer + Bio pH Control <sup>1</sup>	75	60	20	30
Added effect of Bio pH Control in %	50	50	100	

<sup>1</sup> Bio pH Control 0.3 L/pH 3

Grass tests conducted by Agrolab 2022 in winter wheat: Joy-full.

Mateno Duo	Effect in % on grass weeds, mostly windgrass			
Dosage L	0.7	0.35	0.17	0.07
Mateno Duo	80	80	30	10
Mateno Duo + Bio pH Control <sup>1</sup>	90	90	40	20
Added effect of Bio pH Control in %	12,5	12,5	33,3	100

<sup>1</sup> Bio pH Control 0.3 L/pH 3

Grass tests conducted by Agrolab 2022 in winter wheat: Joy-full.

Adimax + Olie	Effect in % on grass weeds, mostly windgrass			
Dosage L	2	1.4	1	0.6
Adimax	60	30	0	0
Adimax + Oil <sup>2</sup> + Bio pH Control <sup>1</sup>	90	90	50	0
Added effect of Bio pH Control in %	50	300		

<sup>1</sup> Bio pH Control 0.3 L/pH 3

<sup>2</sup> Oil 0.5 ltr./ha

Grass tests conducted by Agrolab 2022 in winter wheat: Joy-full.





## Weed control in sugar beet 2023

The half-life of phenmedipham is very fast at high pH values.

Weed tests in sugar beet therefore show the same trend as other tests, i.e. that lowering the pH of the spray water increases both safety and effect while avoiding nozzle stoppages.

The spraying conditions in the experiments were optimal, resulting in high efficiency of the individual spraying. The difference between the individual treatments is therefore smaller than they would have been under less optimal conditions.

### Preliminary conclusion

In the tests, Bio pH Control increased the effect of the herbicides used by 12.5% and, when delaying application by three hours, the effect was improved by as much as 66.6% by lowering the pH with Bio pH Control.



Treatment with Bio pH Control (left) and without Bio pH Control (right). Both were treated after 3-hour delay. Three treatments were made at approximately 7-day intervals.

Phenmedipham	Directly sprayed		
	Whole in %	Half in %	pH
Phenmedipham + Metamitron + Oil + Bio pH Control in %	90	70	3
Phenmedipham + Metamitron + Oil in %	80	70	7.5
Added effect of Bio pH Control in %	12,5	0	

Phenmedipham	Sprayed after 3 hours		
	Whole in %	Half in %	pH
Phenmedipham + Metamitron + Oil + Bio pH Control in %	80	50	3
Phenmedipham + Metamitron + Oil in %	50	30	7.5
Added effect of Bio pH Control in %	60	66.6	

*Dosage whole: Phenmidiphram 1 L + Metamitron 1 kg + 0.25 L oil. The test was conducted by Agrolab 2023.*

*Dosage half: Phenmidiphram 0.5 L + Metamitron 0.5 kg + 0.25 L oil. The test was conducted by Agrolab 2023.*



## Micronutrients for corn

In 9 national tests in corn on sandy soil over 4 years, considerable additional yields were obtained for supplementing BioNutria Bor 150 and BioMangan 170 NS<sup>p</sup>.

In the best test, Max, there are excellent surplus yields. At a price of 0,14 Euro/FU, up to 228 Euro/ha in earnings can be achieved for a treatment that costs approx. 14 Euro.

Spray BioMangan 170 NS<sup>p</sup> and BioNutria Bor 150 together with a late weed spray and possibly again with an insecticide or fungicide spray.

Nine tests over 4 years	Additional yield
Treatment	FU/ha
2 x 2 ltr BioNutria Bor 150	720
2 x 2 ltr BioMangan 170 NS <sup>p</sup>	550
Max for BioNutria Bor 150	1,790
Max for BioMangan 170 NS <sup>p</sup>	980

*The test was conducted by Seges*

## Growth regulation

A number of farmers have found that growth regulating products have a significantly stronger effect when Bio pH Control is added to the spray water.

We therefore recommend reducing the dosage of growth regulators by 50%.

With growth regulator prices of 20-27 Euro per hectare, that is easily savings of 7-10 Euro per ha. + the extra savings in dispersing/adhesive agents.

For certain growth regulators it is also an advantage to add Bio Ammonium Sulphate for enhanced effect.



With BioNutria Bor 150 and BioMangan 170 NS<sup>p</sup> Without treatment

## Insect management

When applying insecticides, it is very important that the entire blade is covered, as the most commonly used insecticides are all contact agents.

Bio pH Control ensures unrivalled coverage thanks to the additives.





# Leaf fertilisation with nitrogen

## – fertilise the plants, not the soil

### Micronutrients + leaf fertilisation + pesticides – an effective, economical and environmentally compelling solution

It is an easy decision to mix micronutrients with Bio NS 15-2 or Bio NS 15-2<sup>Carbon</sup> and apply them simultaneously. In addition to saving application costs, it provides a significant synergy effect, which ensures an unsurpassed high uptake of both macro- and micronutrients.

We therefore recommend adding 5 litres of Bio-Crop Opti<sup>P</sup> or BioCrop Opti<sup>XL</sup> while applying, e.g. 7.5 to 15 kg N/ha. When such large amounts of Bio-Crop Opti<sup>P</sup> or BioCrop Opti<sup>XL</sup> are added repeatedly, the plant can resist fungi and insect attacks far better. Add pesticides to the mixture and remember to optimise the pH of the spraying liquid with Bio pH Control for optimal effect.

### Research

In the Plant Congress 2023 presentation by Jan K. Schjoerring, professor at Aarhus University, the benefits that can be gained from foliar fertilisation rather than placing the fertiliser on the ground were considered.

As can be seen in the tests on page 15, the nitrogen efficiency kg seed/kg N is significantly higher in leaf fertilisation than when the fertiliser is applied to the soil.

### Fertilise the plants, not the soil

The leaf fertilisation concept provides excellent opportunities to target and thus optimise the addition of N and other nutrients.

This provides the best conditions for optimizing the economics of crop production, while also having significant positive environmental benefits.

### Overall conclusion – Jan K. Schjoerring

If it is done correctly, better nitrogen utilisation can be achieved with reduced input. Very topical with high fertiliser prices and carbon tax.

### The potential of leaf fertilisation

- Leaf fertilisation should only be carried out with a relatively small amount of nitrogen per application, 10-20 kg N/ha, to minimise the risk of loss. At the same time, it will reduce the risk of leaf scorch.
- Larger amounts of nitrogen should be added at intervals of several days.
- A  $\alpha$  agent should be added to the solution to reduce surface tension and ensure optimal leaf contact and nutrient uptake in the leaves.
- Furthermore, co-formulation with other nutrients, addition of a carbon source and lowering of the pH of the extracted solution can increase efficiency and prevent ammonia loss.

Bio NS 15-2 and BioNS 15-2<sup>Carbon</sup> are the only leaf fertilisers on the market that fully meet the above recommended composition.

Ferrari et al. 2021	Nitrogen test kg N/ha		Total N added kg N/ha	Seed yield t/ha	Nitrogen efficiency kg seed/kg N
	Soil	Leaves			
2019	32	0	32	5.57 ± 0.01	-
	148	12	160	6.39 ± 0.04	39.9 ± 0.3
	32	64	96	6.53 ± 0.10	68.0 ± 1.0
	32	72	104	6.19 ± 0.10	59.6 ± 0.9
	32	88	120	6.52 ± 0.07	54.4 ± 0.6
2020	32	0	32	5.91 ± 0.76	-
	148	12	160	6.12 ± 0.44	38.3 ± 4.7
	32	64	96	6.82 ± 0.29	71.1 ± 5.2
	32	72	104	6.21 ± 0.64	59.8 ± 10.7
	32	88	120	6.26 ± 0.29	52.2 ± 4.2

### Conclusion – Leaf fertilisation with nitrogen in wheat – Northern Italy

- A mildly significant ( $p > 0.05$ ) additional yield from leaf fertilisation even after application of 25-40% less nitrogen.
- Seed protein content and quality were not affected.
- Nitrogen utilisation efficiency was > 30% better after leaf fertilisation.

N soil: 3 doses in ammonium nitrate. Leaf fertilisation: 4 doses of 12-32 kg N/ha in urea.

Howels, N & Little, T 2022	Conventional fertilisation			Leaf fertilisation			Leaf fertilisation N utilisation versus conv. fertilisation %
	Total N added kg/ha	Additional yield kg/ha	N utilisation dry matter kg/ kg N	Total N added kg/ha	Additional yield kg/ha	N utilisation dry matter kg/ kg N	
Stage 1	275	5700	20,7	110	3200	29.1	140
Stage 2	245	2900	11,8	92	2800	30.4	257
Stage 3	275	2300	8,4	110	2900	26.4	315
Stage 4 solid fert.	270	4300	15,9	92	4100	44.6	280
Stage 5 slurry	425	9000	21,2	224	9200	41.1	194

### Conclusion – Leaf fertilisation with nitrogen for grassland – Wales

- Leaf fertilisation produced similar high yields (15-20 t dry matter/ha) as in conventional systems, even with application of 40-50% less N.
- Leaf-fertilised systems produced higher yields under suboptimal climatic conditions, e.g. in cool and/or dry growing conditions.
- The utilisation efficiency of nitrogen, defined as growth in dry matter yield per additional kg N applied, was 2-3 times higher in leaf fertilised systems.
- The cost per litre of extra milk produced was on average 39% lower in leaf fertilised systems.

Report of the European Innovation Partnership (EIP) Wales.





## Manganese and boron for **corn** in sandy soil

### Effective prevention of boron and manganese deficiency in corn

Micronutrients for corn have now been tested in national tests for four seasons. In all four test years, there was clear extra yield with application of BioNutria Bor 150 and BioMangan 170 NS<sup>P</sup> – up to an impressive 1,780 feed units/ha!

BioNutria Bor 150 and BioMangan 170 NS<sup>P</sup> can be mixed together and with the usual herbicides in corn.

When you choose BioNutria's products, you can thus add both boron and manganese without extra spraying costs.

## Healthy sugar beets – guarantee against deficiency

Our products are used as a guarantee against deficiencies in micronutrients. Our general recommendation is to use a total of 8-10 L BioCrop Opti<sup>XL</sup>, 2-3 L BioMangan 170 NS<sup>P</sup> and 3-5 L BioNutria Bor 150 throughout the growing season.

In some soils, copper deficiency can be seen. Here we recommend adding 0.5-1 L/ha of BioKobber 70.

Our products are easy to use. They are easily mixed with plant protection products, so adding micronutrients does not require any additional applications.

This saves work and ensures that both plant protection and micronutrients are added at the right time.

*Call us for professional sparring and advice on nutrients for your beets.*

## Leek, onion, spinach, cabbage, beetroot, etc. **micronutrients** for conventional and organic farming

### BioNutria has the solutions

More and more vegetable growers are now using BioNutria's micronutrients. Simply to ensure that the crop does not lack one or more micronutrients. If just one nutrient is missing, it negatively affects both yield and quality! It is as simple as that.

No matter what micronutrient your crops need, we can provide it. In the most plant-absorbing form and at very competitive prices. And, of course, with unrivalled blendability with pesticides.

### Extra zinc and copper

BioCrop Opti<sup>ML</sup> for corn and onion is extra rich in zinc. Like our other products, the fertiliser is added to our additives, ensuring an unrivalled uptake in the plant.

When additional manganese is needed, the BioCrop products can be supplemented with BioMangan 180 NS or BioMangan 170 NS<sup>P</sup>.

In addition to manganese, you can add our individual micronutrients, such as:

BioNutria Bor 150, BioKobber 70, BioKalium 100, BioMo 120 and BioMagnesium 50 BioZink.

Similar micronutrients are available in the range for organic farming.







## Superior **starter fertiliser** with proven extra yield

### Big benefits with starter fertiliser

Phosphorus fertiliser for fungicide treatment or application on laying has shown to produce good extra yields in recent years.

BioNutria's starter fertiliser for potatoes, Bio P11, is a pure phosphorus fertiliser for use when laying potatoes.

We tested two products in the national tests in Denmark.

- **Bio NP 5-8.** Absolutely a top scorer in 2017 among liquid starter fertiliser for potatoes in National Test 040221717. Net extra economic yield of 216 Euro/ha. The fertiliser has a low pH and requires equipment that can withstand acidic fertiliser.
- **Bio P11.** A pure phosphorus fertiliser with net extra economic yield of 31 Euro/ha in National Test 04021616. The fertiliser has a low pH and

requires equipment that can withstand acidic fertiliser.

The fertiliser can be used together with fungicide treatment. Just be aware that the fertiliser requires equipment that can tolerate a low pH.

BioNutria offers the most flexible and efficient solutions on the market at very attractive prices.

If you would like a different composition than these, we can tailor a starter fertiliser to your needs.

*Call us today to learn more about starter fertiliser for your potatoes.*



## Effective **late fertilisation**

- **Bio NS 15-2.** Bio NS 15-2 and Bio NS 15-2<sup>Carbon</sup> are true leaf fertilisers that are pH optimised to avoid N evaporation. They are gentle on the potatoes and can be blended with any fungicide. The best products on the market for late fertilisation of potatoes and can be used in all crops.

The formulations ensure rapid and effective plant uptake and utilisation of both nitrogen and sulphur. Adjuncts added.

The recommended dosage is 50 kg = 44 L/ha/treatment. Max dosage is 133 l/ha = 115 l/ha per treatment. Treatment can be repeated as needed.

Supplied in 500–1,000 litre containers.

## Top quality for your **Christmas trees**

BioNutria's micronutrients are used as standard treatment by many Christmas tree growers to ensure colour, needle fill and to minimise the occurrence of bare shoulders on the trees. By choosing BioNutria's fertilisers and following our recommendations, you can look forward to a simple, very economic and super effective fertilisation programme.

### Fertilisation recommendations with micronutrients

1st spraying after budding	Atomising sprayer 400-600 l water/ha	5 l BioCrop Opti <sup>XL</sup> + 1 l BioMangan 180 NS + 12 l BioMagnesium 50
3-4 weeks after 1st spraying	Atomising sprayer 400-600 l water/ha	5 l BioCrop Opti <sup>XL</sup> + 1 l BioMangan 180 NS + 12 l BioMagnesium 50
3-4 weeks after 2nd spraying	Atomising sprayer 400-600 l water/ha	5 l BioCrop Opti <sup>XL</sup> + 1 l BioMangan 180 NS + 36 l BioMagnesium 50
Colour fertilisation as needed (repeat if needed)	Atomising sprayer 400-600 l water/ha	50 kg (40 l) BioNS 15-2 Leaf fertiliser + evt. 36 l BioMagnesium 50

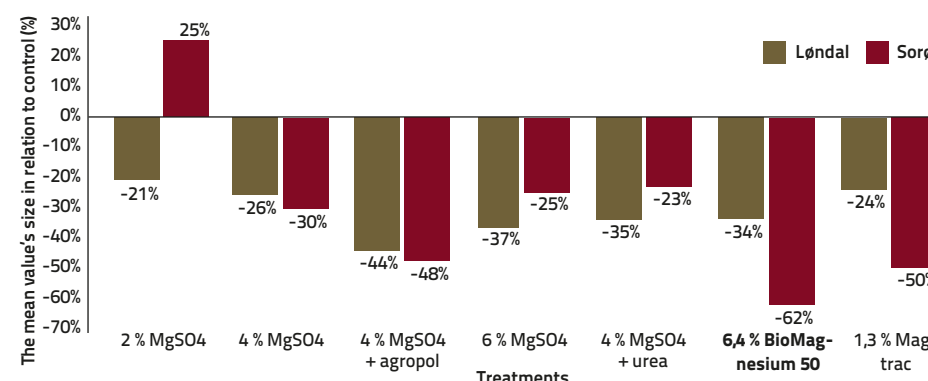
Always use 400–600 L water/ha. It is important that all needles are covered in the solution. The amounts are guidelines only and can be adjusted to the culture's needs with respect to amount and number of applications. 1st application will generally be in the last half of June, and the last application should not be later than the end of September. After that time, the needles may no longer be receptive.

BioNutria's products are fully blendable with sulphur and louse agents and can therefore be added when spraying pesticide.

### Needle loss

Needle loss from magnesium deficiency is unfortunately a well-known problem in many Christmas tree cultures. With BioNutria's BioMagnesium 50, you ensure the application of easily absorbed magnesium multiple times during the season. In a series of experiments, Danske Juletræer has tested the effect of different magnesium solutions on "bare shoulders". Here, BioNutria's BioMagnesium 50 and BioKobber 70 are top contenders, and without any risk of scorching.

### Occurrence of bare shoulders in relation to control treatment



**Better colour and needle fill**

We got more controlled growth and a larger and fuller needle. We did not experience defoliation or brown needles.

Per Skarby, Fæstibakke, Ry,  
Part of Global Nature Trees



# Product overview – organic farming

BioNutria has put together a fertiliser series of permitted non-organic macronutrients, micronutrients and trace elements that can be used in organic agricultural production in accordance with EU Regulation 848/2018.

All the fertilisers are, of course, made from the best and most plant-absorbing raw materials approved for organic use. The products are registered as EU fertilisers.

## BioNutria Mangan 170 S

	S	Mn	Density	pH
g./l.	106.25	178.04		
Weight percent	7.43	12.45	1.43	4.53

## BioNutria Opti<sup>XL</sup>

	S	Mn	MgO	Cu	Zn	B	Fe	Mo	Density	pH
g./l.	74.50	39.00	26.00	1.30	1.30	2.60	13.00	0.10	1.30	3.07
Weight percent	5.75	3.00	2.00	0.10	0.10	0.20	1.00	0.01	1.30	3.07

## Aminosol 9

	N	K	Vf	pH
g./l.	115	11		
Vikt procent	9.4	0.9		

## Aminosol PS 6

	N	Vf	pH
g./l.	65.00		
Vikt procent	6.00		

## BioNutria Bor 150

	B	Density	pH
g./l.	150.00		
Weight percent	11.03	1.36	8.10

## BioNutria Zink 115

	Zn	S	Density	pH
g./l.	98.40	30.70		
Weight percent	8.00	2.50	1.23	4.96

## BioNutria Jern 75

	Fe	Density	pH
g./l.	75.00		
Weight percent	6.50	1.20	1.63

## BioNutria Mo 120

	Mo	Density	pH
g./l.	119.00		
Weight percent	9.50	1.23	8.59

## BioNutria Kobber 70

	S	Cu	Density	pH
g./l.	35.00	70.00		
Weight percent	3.02	6.00	1.18	3.81

## BioNutria Magnesium 50

	S	MgO	Density	pH
g./l.	66.00	51.20		
Weight percent	5.49	4.20	1.22	6.92

## BioNutria Cobolt 30

	Co	Density	pH
g./l.	30.00		
Weight percent	2.78	1.081	6.01

## Product descriptions

### BioNutria Mangan 170 S

Effectively remedies and prevents manganese deficiency in all crops. A premixed, high-quality manganese solution. Also contains sulphur.

### BioNutria Opti<sup>XL</sup>

Contains eight macronutrients, micronutrients and trace elements and is, of course, made from the very best raw materials allowed for organic use.

### Aminosol 9

Organic nitrogen fertiliser containing 20 different amino acids and peptides. May be used for organic agricultural production in accordance with the guidelines laid down in Council Regulation (EU) No 834/2007 and Regulation (EC) No 889/2008.

### Aminosol PS 6

Organic nitrogen that may be used for organic agricultural production in accordance with the guidelines laid down in Council Regulation (EU) No 834/2007 and Regulation (EC) No 889/2008.

### BioNutria Bor 150

Liquid boron fertiliser for boron-dependent crops such as rape and beets. Optionally, supplement with BioNutria Opti<sup>XL</sup> to cover over micronutrient needs. Unique blendability.

### BioNutria Zink 115

Highly concentrated. Effectively remedies and prevents zinc deficiency in all crops. Special formula that is rich in directly plant-accessible zinc. Also contains sulphur.

### BioNutria Jern 75

Highly concentrated iron fertiliser. Effectively remedies and prevents iron deficiency in all crops.

### BioNutria Mo 120

Highly concentrated. Effectively remedies and prevents molybdenum deficiency in all crops.

### BioNutria Kobber 70

Effectively remedies and prevents copper deficiency in all crops. Special formula that is rich in directly plant-accessible copper and sulphur..

### BioNutria Magnesium 50

Magnesium solution formulated for directly plant-accessible magnesium. Also contains sulphur.

### BioNutria Cobolt 30

Highly concentrated. Remedies and prevents cobalt deficiency. Used for all crops that have symbiosis with tuber bacteria, as well as for feed crops for ruminants.

**Effective product**  
"With BioNutria Manganese 170 S, we have a product which effectively and quickly remedies manganese deficiency."

Peter Holst,  
Rokkedahl Ecology, Nibe

## Valuable insurance against losses



For the past seven years, Steen Pedersen has been responsible for the operation of Agri Consortium's three properties covering a total of 8,500 ha in Romania. Wheat and rape are sown on 75% of the area in the autumn. The remaining 25% consists mainly of sunflower and a little corn.

"Our winter crops are heartier than spring crops, as the area is often exposed to long droughts in the spring and summer.

For the 2024 harvest, we have established 1,500 hectares of winter rape, and we hope to be able to establish at least 4,500 hectares of wheat. We have deep ploughed and harrowed prior to establishment, but we are considering moving to direct sowing. We have problems achieving satisfactory germination because of the many clumps of clay that emerge when loosening the soil. We hope to be able to achieve a mulch-like topsoil by avoiding deep ploughing, as well as less evaporation of the sparse water, and thereby achieve better germination.

For the last six seasons, we have used BioCrop Opti<sup>XL</sup> and BioCrop Opti<sup>P</sup> as insurance. We use BioCrop as an inexpensive safeguard for all crops, as yield loss in case of deficiency is impossible to make up for once it is discovered. We often see a clear effect just a few days after spraying BioCrop on the crops. The plants become greener and fresher to look at. The products are easy to mix with pesticides. In recent years, we have used Bio pH Control as part of a fixed programme, and we feel that we get better effects from the herbicides when we add Bio pH Control and BioCrop products."

Steen is considering setting up a pumping system so they can add the right amount of Bio Ph Control to the water when filling the water tanks that feed the sprayers in the field. That way there is less that the spray operators need to think about out in the field, making spraying work simpler and more efficient.

**Steen Pedersen, Operations Manager, Agri Consortium, Romania**  
Agri Consortium, which is mainly owned by Danish shareholders, owns four properties totalling 13,000 ha in eastern Romania. Mainly wheat and rape-seed are grown, as well as sunflower and some corn.





## Our yields have grown

Lasse Bertelsen, managing director at Schackenberg and responsible for 986 ha of farmland, has been employed at Schackenberg since June 2021. He is familiar with BioNutria’s products from his native Samsø, where he used them in vegetable production.

“Schackenberg is mainly a no-till operation, as there is a huge seed pool of various grasses in the soil, which gives us problems when we till. We began using BioNutria products in the spring of 2022, optimising the spray water quality with Bio pH Control and Bio Ammoniumsulfat for glyphosate, growth regulation and MCPA. At the same time, we tested BioCrop Opti<sup>XL</sup> on wheat fields, which appeared to produce a higher yield than the fields that had not been treated with BioCrop Opti<sup>XL</sup>, although no actual measurements were taken.

In the autumn of 2023, we have gone all in on the entire BioNutria programme for the entire property, and we have also done our own experiments in a wheat field. The entire field was sprayed with BioMangan and BioCrop Opti<sup>XL</sup> in the autumn of 2022. In the spring of 2023, parcels were made with and without BioNutria’s programme as the only variable. These parcels were carefully measured and weighed separately.

### Test with micronutrient Mark 12-0

Parcels of 10.8 x 380 m	Without	With BioNutria spring programme	Difference
Per ha	6,676 kg	6,920 kg	+ 244 kg

Despite the spring drought, which was very hard on the crops growing in the relatively light soils of Schackenberg, the parcels treated with BioNutria’s programme in the spring generated an additional yield of 244 kg/ha, and it cost us about 1 barrel of bread grain for all treatments. On top of that, we didn’t have to add a spreader-sticker agent. I am happy we chose to use BioNutria’s programme on all fields, for an additional yield of about 2.5 barrels on more than 700 ha – that is quite a bit of money.

I also noticed that, even though the autumn was late and wet, there were no signs of lodging. I can’t say for sure whether this was due to the TRIPLEX strategy, but it is a possibility. Since we started using BioNutria’s products, I can see that our sprayer is always clean and that we have saved money on expensive cleaning products. When we ran our old sprayer that has no air-assistance, we noticed a change in the spray mist when using Bio pH Control or BioCrop Opti<sup>XL</sup>. It was as though the drops became heavier and drift was greatly reduced. This is not as noticeable now that we have a sprayer with air assistance, but it is probably still the case.”

**Lasse Bertelsen is managing director and responsible for agricultural operations at Schackenberg Landbrug A/S**  
Schackenberg Landbrug A/S has agricultural operations of 986 ha, with 166 ha of bread wheat under contract with Lantmännen Cerealia, 146 ha of winter rape, 142 ha of spring barley for malt, 124 ha of bread rye under contract with Lantmännen Cerealia, 100 ha of oats under contract with Lantmännen Cerealia, 62 ha of ryegrass for seed, 47 ha of corn for biogas, and 27 ha of renewable grass for biogas. The remaining hectares consist of nature, fallow land etc. In addition to Lasse Bertelsen, the staff consists of a newly trained farmer and a trainee.

## Micronutrients make plants healthier and stronger

When no-till farmer Anders Falk Rasmussen drives through his field with his sprayer, micronutrients are included in the tank. That’s a fact.

“I find it’s cheap insurance when you’ve sown the crop anyway – and I like wearing both belts and braces.

I always add micronutrients when I’m in the field with plant protection in the sprayer. I also add BioMangan in the lighter soils and BioNutria Bor 150 for cereals and rapeseed.

Of course, we may run the risk that it will not be necessary for a few years, but it is an expense of around 27 Euro per hectare, and therefore it won’t break the bank.

We use BioCrop Opti<sup>P</sup>, which contains nine different micronutrients and extra phosphorus, because here in eastern Denmark there are problems with low phosphorus levels many places. I find that we get healthier plants that are more resistant to disease. For example, there is much less mildew in the barley than before.

Visually, I can see that I get greener plants and stronger biomass, and healthier plants must give higher yields.

This year – a year with particularly difficult conditions – our rape-seed yield was 300 kilos higher than the average in the area.

This could be due to a combination of micronutrients, more water available in the soil because it is not tilled, and timely application of fertiliser.

Another advantage of the micronutrient mixture is that it lowers the pH level in the water, which is extremely hard here on Falster.

The hard water can reduce the effect of the chemistry – that’s why I use Bio pH Control. I definitely experience better effect from my plant protection when the pH is lowered. Especially glyphosate.”

**Anders Falk Rasmussen, Vestervang in Væggerløse on Falster**  
Anders, Jacob and Henrik Falk Rasmussen. The family has a total of 280 hectares, and grows rye, wheat, spring barley, spring wheat, rape, white clover and meadow grass. They also sow 300–400 hectares for others with a Claydon seed drill.



## Ordering

We have made it even easier to order our products. As usual, you can order our products through one of our employees in the AgroTeam or online 24 hours a day at our webshop [bionutria.eu](https://bionutria.eu)

## Packaging sizes

You are free to compose both a half and whole pallet with the various products that suit precisely your needs. You decide the composition of the pallet yourself according to your wishes and with precisely the products you need.

**Whole pallet: 87 x 10 L jugs**

**Half pallet: 44 x 10 L jugs**

We even deliver our products in 500 and 1,000 L containers to make it even cheaper.

## Delivery

We deliver directly to your door. The order leaves our warehouse within 1-2 days of the accepted order confirmation.







**BioNutria**  
DANMARK

## Orders, sales and advising

Good advice doesn't cost extra. We are always on hand to advise you, and if you have questions, do not hesitate to contact us. Call us or email your order. We'll find the products that suit your needs – at the right price.

*P.S.: Order your goods for 2024 early. It means a lot to us that we can plan production. Naturally, you should not receive the products before you need them.*



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**Quality does not cost – it pays!**