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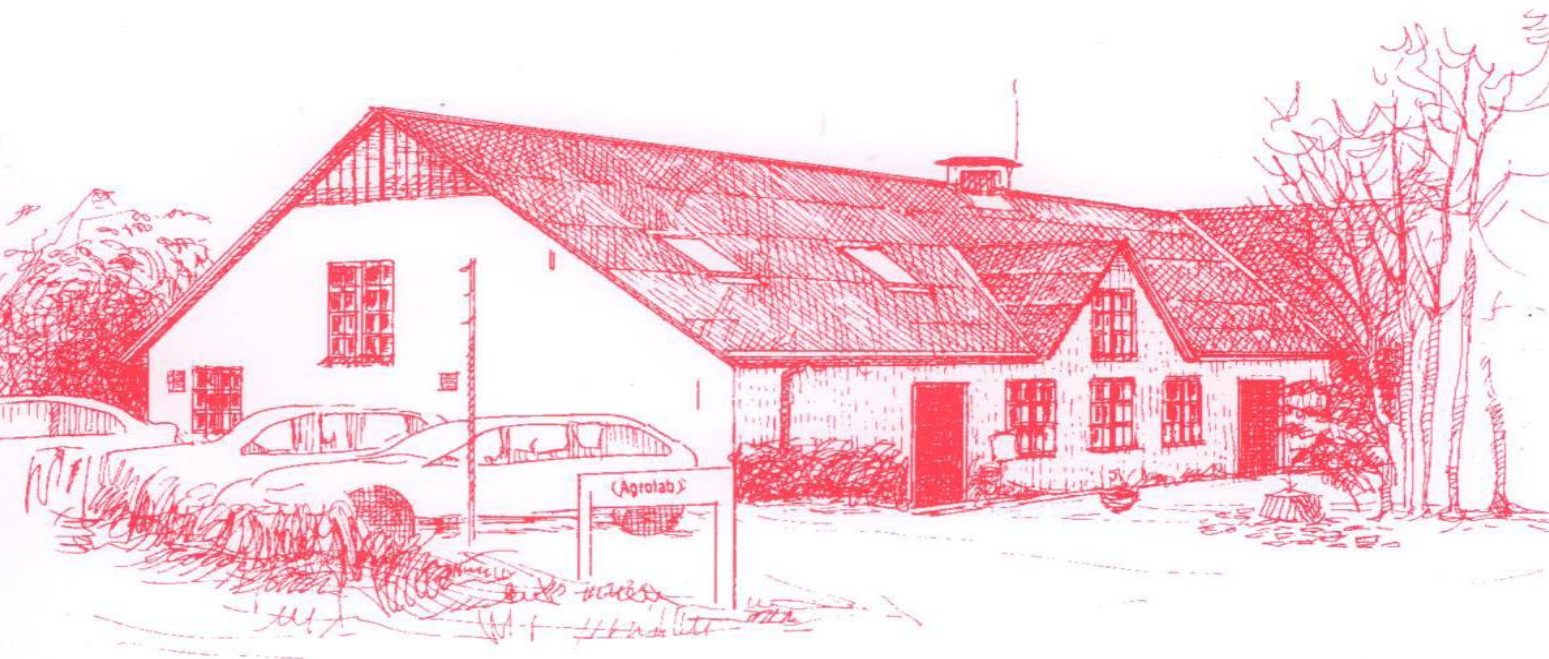
Statsautoriseret, aut. no. 231  
Accredited Laboratory

# REPORT 2014

**BioNutria  
Glagården  
67020 Glava  
Sverige**

**Study no 119 14-01**

**Tank Mixture Compatibility of Biobor 150 with various pesticides**



Adresse: Røjleskovvej 18  
DK-5500 Middelfart  
Danmark

Telefon: + 45 64 40 65 75  
Telefax: + 45 64 40 67 75

E-mail: [agrolab@agrolab.dk](mailto:agrolab@agrolab.dk)  
[http:// www.agrolab.dk](http://www.agrolab.dk)

## Title Page

Study Title:	Tank Mixture Compatibility of BioBor 150 with various pesticides
Study id. numbers	Study number 119 14-01

Experimental testing period:	Feb 2014
Report completed:	Feb 2014
Place of archiving:	The original report and the original raw data will be archived at Agrolab A/S®.

Sponsor	Performing laboratory
BioNutria Glagården 67020 Gle Denmark	Agrolab A/S Røjleskovvej 18 5500 Middelfart Denmark

Report prepared by / Author:	Report approved by:
Carl Jensen Agrolab A/S Røjleskovvej 18 DK-5500 Middelfart Denmark	Martin Gejl Site Manager of Agrolab A/S® Røjleskovvej 18 DK-5500 Middelfart Denmark
<u>20 Feb 2014</u> Date	<u>20 FEB 2014</u> Date
<u>Carl Jensen</u> Signature	<u>[Signature]</u> Signature

This is an exact copy of the original report  
Copy no.:

20 Feb 2014  
Date

Carl Jensen  
Signature

## Preface

This report contains one series, consisting of one trial:

119 14-01 One trial to test the compatibility of BioBor 150 with various pesticides.

Please note that the results only relate to the products and formulations mentioned in the product list, and that the products have been supplied by the Sponsor under the codes mentioned. Attention is drawn to the fact that the report **must not** be reproduced, except in full, without the approval of Agrolab A/S® and the Sponsor or the Sponsor alone. The complete report must be handled as **CONFIDENTIAL** until released by the Sponsor.

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## Objectives

Determination of the tank mix compatibility of Biobor 150 with various pesticides.

## Test

### Test facility

The trial was carried out at the test facility at Agrolab A/S, Røjleskovvej 18, 5500 Middelfart, the chemical products used in the trial are stored at Agrolab A/S in a temperature controlled storage room. The mixing, stirring and spraying of the products were done at a normal room temperature 15-20 °C.

### Test method

The water volume was 100 ml per jar, the product was weight out on a laboratory balance or measured by disposal pipet. After putting the amount of products one by one into the water the liquid was stirred and evaluated (5 min). The liquid was shaken in 30 min. and evaluated of the physical compatibility of the products. The liquid was sprayed out through one nozzle containing a mesh 100 nozzle filter and the filter was evaluated for sedimentation.

### Water

The water used in the test is regular tap water from public surlier, the water has the following specifications:

Water hardness	14 dH
pH	7.40
Nitrate	0.9 mg/l
Phosphorus	0.01 mg/l
Avg. water temperature	7.8 °C

**Dose rates**

Test product	Dose rate per ha	Batch number	Water volume l/ha
Mavrik2F	0,3/ha	170512	100
Matrigon 72 sg	0,11 kg/ha	ZL221618A3	100
PG26N	0.5 l/ha	YA25091501	100
Folicur Ec 250	0,35 l/ha	ECE2101852	100
Amistar	0,35 l/ha	91113885	100
Biscaya	0,3 l/ha	ECE7100837	100

**Conclusion**

Biobor 150 was physical compatible with all the products at the tested dose rates. Except mix of Biobor 150 and Mavrik 2F the wrong way. Mavrik 2F must be added first and mixed with the water, before you add Biobor 150.

	<b>Final Report</b>	Study no119 14-01 Compatibility test
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## Result tables

Table 1:

<u>Test Facility</u> Agrolab A/S	<u>Sponsor</u> BioNutria
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This report details the results of a dynamic laboratory test of the Physical compatibility of tank mixtures as devised by the Agronomy and Application Sub Group (BAA) and approved by the Regulatory Affairs committee (1986).

The results have been interpreted in strict accordance with the published method, so that an increase in any of the factors assessed in tank mix combinations compared to the sum of the assessments of the same factor from the products tested alone results in a recommendation for further testing. The ultimate decision whether the difference in the mixture represents a significant change from the products tested alone rest with the sponsor.

Study number	119 14-01
Treatment	1

Spray volume	100	l/ha
Test date	19 juli 2013	

Tested by:	CJ
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Mixing order	Product	Rate /Ha	Rate /100ml	Results after shaking at (min)			Comments after spraying	
				5 min	30 min	120 min	Liquid Colour	100 mesh nozzle filter
1	BioBor 150	2,0 l	2,0 ml	PC	PC	NA	clear	No problem
2	Mavrik 2F	0,3 l	0,3 ml	PC	PC	NA	White	No problem
1 → 2	BioBor 150 → Mavrik 2F	2,0 l 0,3 l	2,0 ml 0,3 ml	I	I	NA	White	Few small precipitations In the filte
2 → 1	Mavrik 2F → BioBor 150	0.3 l 2,0 l	0.3 ml 2,0 ml	PC	PC	NA	White	No problem
Test result (PC = Physically compatible, I = Incompatible, RTF = Requires further testing)								




	<b>Final Report</b>	Study no119 14-01 Compatibility test
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Table 2:

<u>Test Facility</u> Agrolab A/S	<u>Sponsor</u> BioNutria
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This report details the results of a dynamic laboratory test of the Physical compatibility of tank mixtures as devised by the Agronomy and Application Sub Group (BAA) and approved by the Regulatory Affairs committee (1986).

The results have been interpreted in strict accordance with the published method, so that an increase in any of the factors assessed in tank mix combinations compared to the sum of the assessments of the same factor from the products tested alone results in a recommendation for further testing. The ultimate decision whether the difference in the mixture represents a significant change from the products tested alone rest with the sponsor.

Study number	119 14-01
Treatment	2

Spray volume	100	l/ha
Test date	19 Feb 2014	

Tested by:	CJ
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Mixing order	Product	Rate /Ha	Rate /100ml	Results after shaking at (min)			Comments after spraying	
				5 min	30 min	120 min	Liquid Colour	100 mesh nozzle filter
1	BioBor 150	2,0 l	2,0 ml	PC	PC	NA	clear	No problem
2	Matrignon 72SG+PG26N	0,11kg+0,5L	0,11g+0,5ml	PC	PC	NA	clear	No problem
1 → 2	BioBor 150→ Matrignon 72SG+PG26N	2,0l 0,11kg+0,5L	2,0 ml 0,11g+0,5ml	PC	PC	NA	clear	No problem
2 → 1	Matrignon 72SG+PG26N BioBor 150	0,11kg+0,5L 2,0 l	0,11g+0,5ml 2,0 ml	PC	PC	NA	clear	No problem
Test result (PC = Physically compatible, I = Incompatible, RTF = Requires further testing)								

	<b>Final Report</b>	Study no119 14-01 Compatibility test
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Table 3:

<u>Test Facility</u> Agrolab A/S	<u>Sponsor</u> Syngenta
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This report details the results of a dynamic laboratory test of the Physical compatibility of tank mixtures as devised by the Agronomy and Application Sub Group (BAA) and approved by the Regulatory Affairs committee (1986).

The results have been interpreted in strict accordance with the published method, so that an increase in any of the factors assessed in tank mix combinations compared to the sum of the assessments of the same factor from the products tested alone results in a recommendation for further testing. The ultimate decision whether the difference in the mixture represents a significant change from the products tested alone rest with the sponsor.

Study number	11 13 02
Treatment	3

Spray volume	100	l/ha
Test date	16 juli 2013	

Tested by:	CJ
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Mixing order	Product	Rate /Ha	Rate /100ml	Results after shaking at (min)			Comments after spraying	
				5 min	30 min	120 min	Liquid Colour	100 mesh nozzle filter
1	BioBor 150	2,0 l	2,0 ml	PC	PC	NA		No problem
2	Amistar+Folicur Ec250	0,35+0,35 l	0,35+0,35 ml	PC	PC	NA		No problem
1 → 2	BioBor 150 → Amistar+Folicur Ec250	2,0 l 0,35+0,35 l	2,0 l 0,35+0,35 ml	PC	PC	NA		No problem
2 → 1	Amistar+Folicur Ec250 → BioBor 150	0,35+0,35 l 2,0 l	0,35+0,35 ml 2,0 l	PC	PC	NA		No problem
Test result (PC = Physically compatible, I = Incompatible, RTF = Requires further testing)								

	<b>Final Report</b>	Study no119 14-01 Compatibility test
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Table 4:

<u>Test Facility</u> Agrolab A/S	<u>Sponsor</u> Syngenta
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This report details the results of a dynamic laboratory test of the Physical compatibility of tank mixtures as devised by the Agronomy and Application Sub Group (BAA) and approved by the Regulatory Affairs committee (1986).

The results have been interpreted in strict accordance with the published method, so that an increase in any of the factors assessed in tank mix combinations compared to the sum of the assessments of the same factor from the products tested alone results in a recommendation for further testing. The ultimate decision whether the difference in the mixture represents a significant change from the products tested alone rest with the sponsor.

Study number	119 14-01
Treatment	4

Spray volume	100	l/ha
Test date	19	

Tested by:	CJ
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Mixing order	Product	Rate /Ha	Rate /100ml	Results after shaking at (min)			Comments after spraying	
				5 min	30 min	120 min	Liquid Colour	100 mesh nozzle filter
1	BioBor 150	2,0 l	2,0 ml	PC	PC	NA	White	No problem
2	Biscaya	0,3 l	0,3ml	PC	PC	NA	White	No problem
1 → 2	BioBor 150 → Biscaya	2,0 l 0,3 l	2,0 l 0,3 ml	PC	PC	NA	White	No problem
2 → 1	Biscaya → BioBor 150	0,3 l 2,0 l	0,3 ml 2,0 ml	PC	PC	NA	White	No problem
Test result (PC = Physically compatible, I = Incompatible, RTF = Requires further testing)								