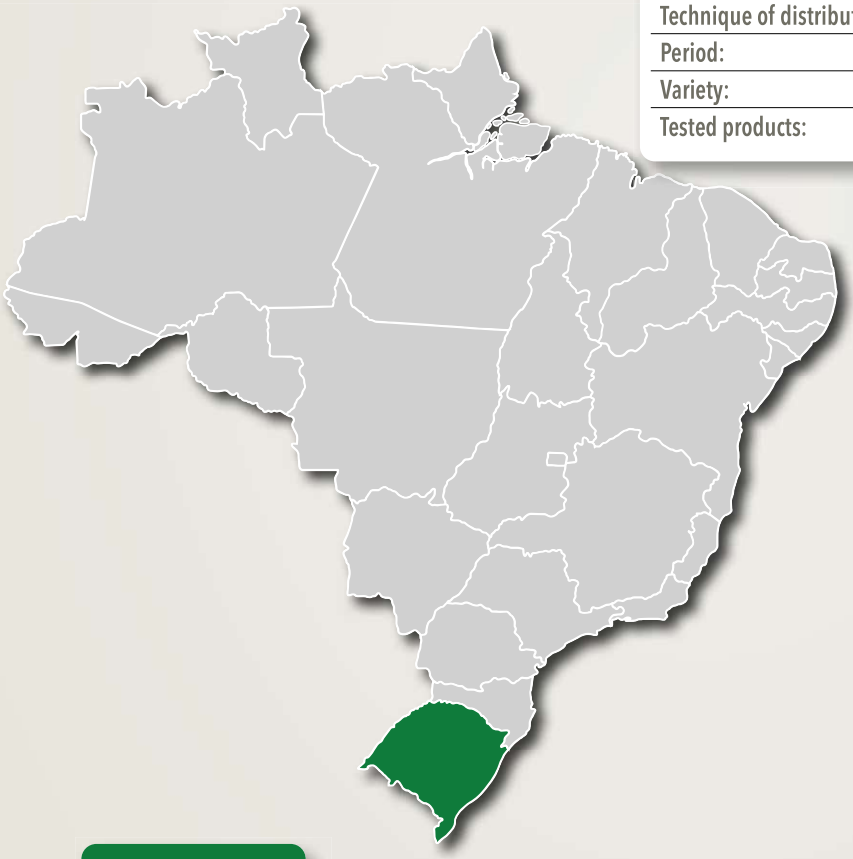
GARLIC

Increased yield and size

PLACE

Test location:	Empresa Alfeu Andrighetti - Vacaria Empresa Evandro Magnabosco - Vacaria Empresa Juliano Panassol - Campestre da Serra Empresa Leandro Scopel - Ipê Rio Grande do Sul
Person in charge:	IlsaBrasil
Number of thesis:	8
Type of cultivation:	Open field
Technique of distribution:	Soil application
Period:	10/06/2020– 06/02/2021
Variety:	Chonan, São Valentin
Tested products:	Fertorganico



QUALITY CONTROL APPROVATO

OBJECTIVE

To evaluate the efficacy of Fertorganico, integrated into or used as a replacement for other organic products, on the increased size of the bulbs and on the final yield.

RESULTS ACHIEVED

Fertorganico was integrated into the usual strategy of four garlic producers, therefore in four different fields, in the state of Rio Grande do Sul. The main objective was to evaluate the efficacy of Agrogel® in replacing manure or other organic soil improvers, the quantities of which to be applied per hectare are generally very high and involve problems and costs for distribution.
The data confirmed, in all four tests, the greater nutritional efficacy of Agrogel® which, despite the smaller quantities per hectare, efficiently and progressively releases all the nitrogen available to the plants. In all the tests, Fertorganico allowed to obtain not only an increase in the final yield but also a more uniform distribution of the bulbs in the largest and most commercially appreciated classes.

TEST PROTOCOL 1 - ALFEU ANDRIGHETTI - VAR. CHONAN

	ILSA thesis	Company thesis
Pre-sowing	NPK 5-20-10: 1,700 kg/ha Manure: 1,500 kg/ha **Fertorganico: 750 kg/ha**	NPK 5-20-10: 1,700 kg/ha Manure: 20,000 kg/ha

TEST PROTOCOL 2 - EVANDRO MAGNABOSCO - VAR. SÃO VALENTIN

	ILSA thesis	Company thesis
Pre-sowing	Triple superphosphate: 650 kg/ha KCl: 600 kg/ha **Fertorganico: 1,000 kg/ha**	NPK 5-16-8: 3,000 kg/ha Triple superphosphate: 650 kg/ha

TEST PROTOCOL 3 - JULIANO PANASSOL - VAR. SÃO VALENTIN

	ILSA thesis	Company thesis
Pre-sowing	NPK 5-23-11: 1,700 kg/ha Manure: 10,000 kg/ha **Fertorganico: 500 kg/ha**	NPK 5-23-11: 1,700 kg/ha Manure: 10,000 kg/ha
Coverage	**Azoslow N29: 300 kg/ha**	N15 + Ca: 300 kg/ha

TEST PROTOCOL 4 - LEANDRO SCOPEL - VAR. SÃO VALENTIN

	ILSA thesis	Company thesis
Pre-sowing	NPK 5-20-20: 2,000 kg/ha **Fertorganico: 1,300 kg/ha**	NPK 5-20-20: 2,000 kg/ha Manure: 20,000 kg/ha

For all the tests, the other treatments, fertilisation and plant protection, were similar for both thesis, as per company practice.

ILSA
The green evolution

GARLIC

Increased yield and size

BIO ILSA

RESULTS OF TEST 1 - ALFEU ANDRIGHETTI - VAR. CHONAN

	ILSA thesis	Company thesis
Yield (t/ha)	**15.519**	14.952
Distribution of size classes (%)		
Classes 3-4	**26.0**	36.0
Classes 5-6	**33.0**	30.0
Classes 7-8	**41.0**	34.0
TOT	**100%**	100%

RESULTS OF TEST 2 - EVANDRO MAGNABOSCO - VAR. SÃO VALENTIN

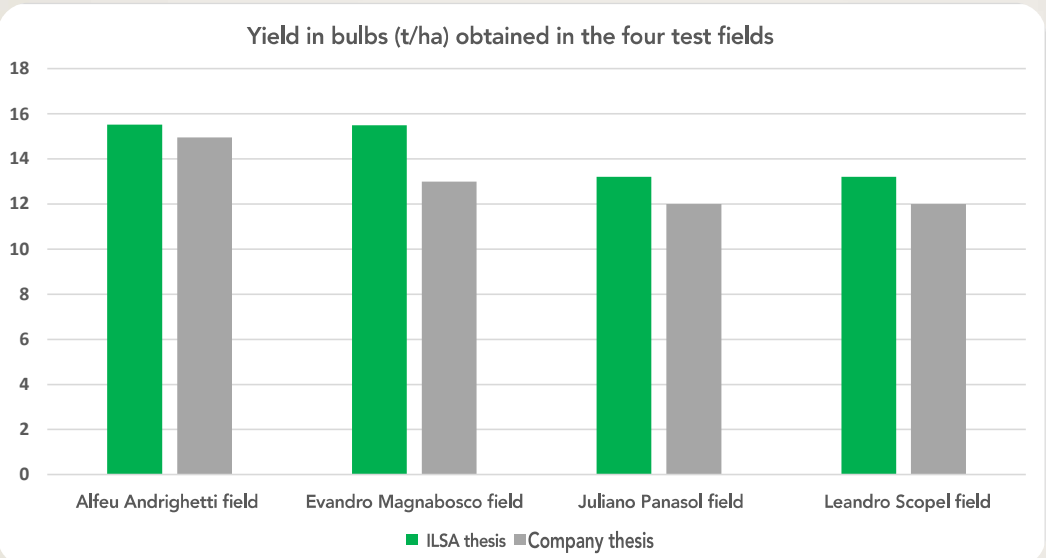
	ILSA thesis	Company thesis
Yield (t/ha)	**15.5**	13.0
Distribution of size classes (%)		
Classes 3-4	**25.0**	46.0
Classes 5-6	**40.0**	34.0
Classes 7-8	**35.0**	20.0
TOT	**100%**	100%

RESULTS OF TEST 3 - JULIANO PANASSOL - VAR. SÃO VALENTIN

	ILSA thesis	Company thesis
Yield (t/ha)	**13.2**	12.0
Distribution of size classes (%)		
Classes 2-3	**9.0**	12.0
Classes 4-5	**17.0**	27.0
Classes 6-7	**74.0**	61.0
TOT	**100%**	100%

RESULTS OF TEST 4 - LEANDRO SCOPEL - VAR. SÃO VALENTIN

	ILSA thesis	Company thesis
Yield (t/ha)	**13.2**	12.0
Distribution of size classes (%)		
Classes 3-4	**8.0**	11.0
Classes 5-6	**29.0**	41.0
Classes 7-8	**63.0**	48.0
TOT	**100%**	100%



Detail of the test field at the Juliano Panassol company. The better vegetative condition of the plants, thanks to the greater nutritional efficiency of Agrogel® compared to manure, allowed an increase in final yield and also a higher average size of the bulbs.