CEREAL CROPS · TRIAL RESULTS · SPRING WHEAT

Spring wheat: 37.7% more yield on 25% less fertiliser

In 2025 the Latgale Agricultural Science Centre tested Hortimed HUMUS SAPROPEL Biostimulant on spring wheat 'Berlock'. The highest yield of the trial came from plots that received a quarter less mineral fertiliser than the control.

+37.7%
Yield with HUMUS SAPROPEL at 75% NPK - 4.20 t/ha

+28.9%
Yield with HUMUS SAPROPEL at full NPK - 3.93 t/ha

Extra class
Food-wheat quality reached by treated grain

What it means for growers

- **The biggest cereal result to date.** +37.7% is the largest yield gain in Nordagri's 2022-2025 cereal trials.
- **Less fertiliser, more grain.** At 75% NPK, HUMUS SAPROPEL out-yielded the full-rate control - lower input spend with a higher harvest in this trial.
- **Food-grade wheat.** Treated grain met Extra-class food-wheat requirements for protein, gluten and falling number.

Grain yield

Treatment	Yield, t/ha	vs control
Control (NPK 100%, no biostimulant)	3.05	-
HUMUS SAPROPEL, NPK 100%	3.93	**+28.9%**
HUMUS SAPROPEL, NPK 75%	4.20	**+37.7%**

Yields recalculated to standard moisture content.

Grain quality

- Protein above 14%
- Gluten 27-27.7% - first quality group
- Falling number 329-367 s - meets Extra-class requirements

Trial at a glance

Crop	Spring wheat
Cultivar	'Berlock'
Product tested	Hortimed HUMUS SAPROPEL Biostimulant
Location	Eastern Latvia
Season	2025
Trial type	Replicated field trial
Research partner	SIA Latgale Agricultural Science Centre (LLZC), Latvia
Fertiliser programme	Mineral NPK at 100% and at 75% of the standard rate

Statistics	Replicated plots with statistical analysis (LSD/ANOVA)

Product used

Hortimed HUMUS SAPROPEL Biostimulant

A liquid biostimulant made from sapropel - an organically rich freshwater lake sediment from Latvia. CE-marked under EU Fertilising Products Regulation (EU) 2019/1009, OMRI Listed and Ecocert-approved.

About this trial

Source: SIA Latgale Agricultural Science Centre (LLZC), Latvia - Hortimed spring wheat 'Berlock' trial report, 2025.

Results were presented at a regional field day with more than 2,000 visitors and reviewed by the Latvian Ministry of Agriculture and LLZA.

Results vary with season, soil, crop and management. Figures are trial averages and are not a guarantee of results on an individual farm.

Full trial reports - with methodology, weather data and complete quality tables - are available on request.

Request the full trial report