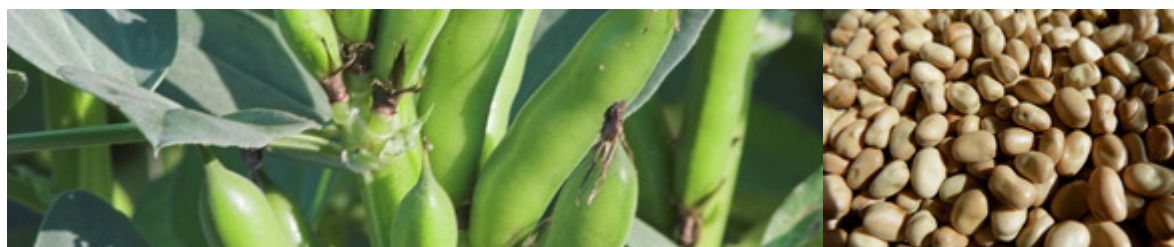


Field bean

PROTINA

The champion of protein yield



Benefits:

- Highest protein content
- High and stable grain yield
- Outstanding protein yield
- High stiffness
- High tolerance to rust and ascochyta blight

Variety characteristics: (Officially confirmed or respectively in line with Bundessortenamt)

	bad / early / short / low	good / late / long / high / tall
Vicin/Convicin content	Average	
Content of tannin	Yes	
Grain yield	<div><div></div><div>8</div></div>	
Protein yield	<div><div></div><div>9</div></div>	
Protein content	<div><div></div><div>6</div></div>	
Start flowering	<div><div></div><div>4</div></div>	
Maturity	<div><div></div><div>5</div></div>	
Plant height	<div><div></div><div>6</div></div>	
Stiffness	<div><div></div><div>7</div></div>	

Breeder: P. H. PETERSEN Saatzucht Lundsgaard GmbH, Version: 09.01.2023 / 1.00



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Field bean

PROTINA

The champion of protein yield

Usage:

Grain use
Nitrogen fixation
Suitable for human and animal nutrition

Cultivation recommendations:

Recommended sowing rate	40 - 50 grains/m ²
Sowing depth	6 - 8 cm on heavy soils, 8 - 10 cm on light soils
Sowing period	Earliest possible in spring - frost tolerant up to approx. -5°C
Sowing method	Single or double row spacing is beneficial for the yield, larger row spacing in combination with precision sowing is possible.
Fertilization	No N-fertilization necessary. Depending on the nutrient content of the soil and nutrient extraction 40-60 kg P ₂ O ₅ /ha, 100-130 kg K ₂ O/ha and about 20-50 kg MgO/ha are advised. If necessary an application of sulphur is suggested.
Crop protection	Use herbicides during pre-emergence or mechanically hoe or harrow the field for weed control. Post-emergence herbicide application specifically against grasses is possible. If necessary use fungicides against chocolate spots. Use clean seed to avoid ascochyta blight. When considering usage of insecticides against black bean aphid or bean weevil mind the damage threshold.
Harvest	Optimal moisture for harvesting 15-19%. Use protective setting for threshing to avoid broken grains.

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