

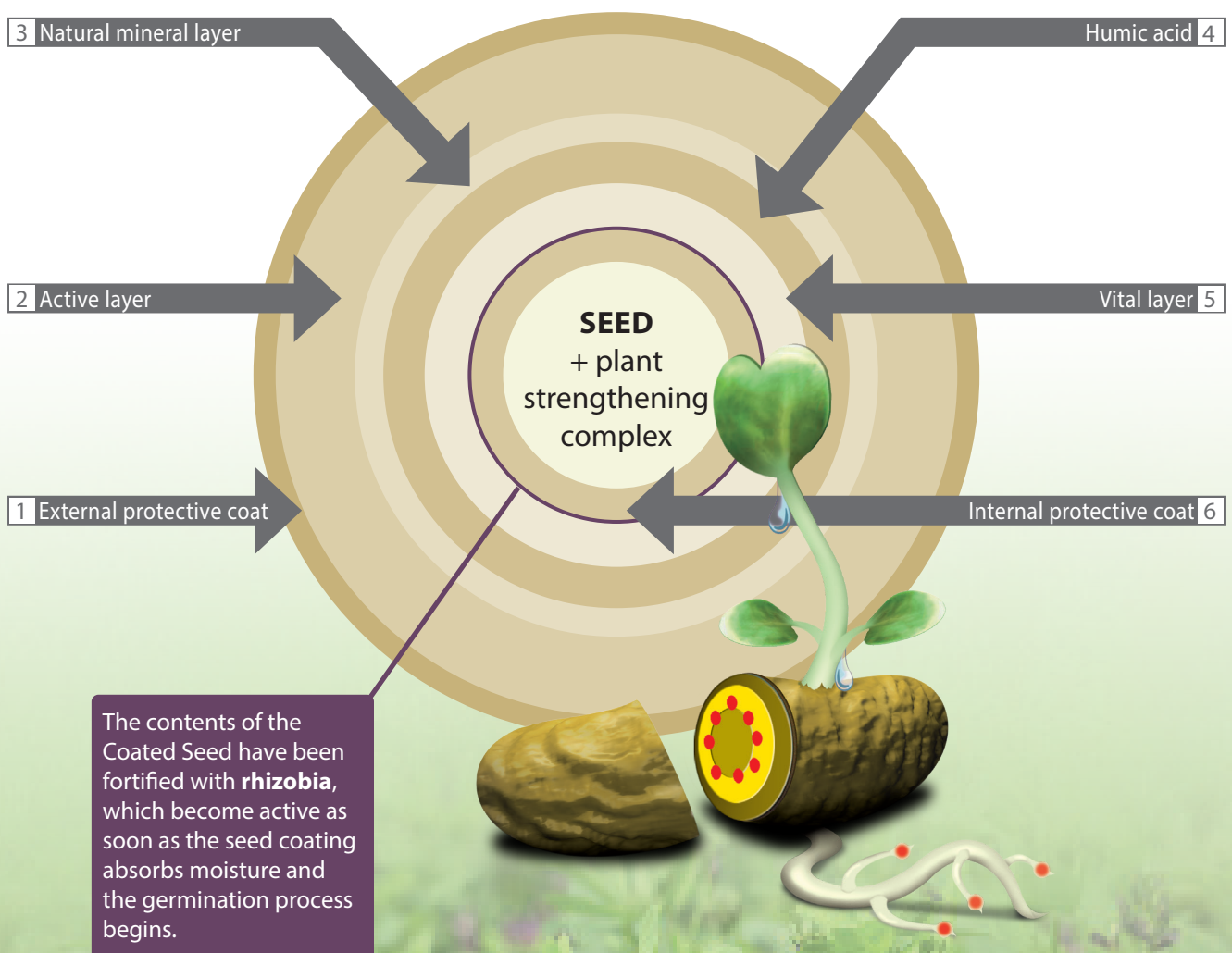
# PRODUCT DATA SHEET



## Coated Seed Rhizo

### Rhizobia coating – a smart, highly effective coating

Coated Seed Rhizo combines a growth-boosting seed coat with specific strains of rhizobia tailored to each species offered with seed coating. Coated Seed Rhizo can be used to optimise the performance of a wide variety of legumes with small seeds. Through a symbiosis with the plant roots, root nodule bacteria help the treated plants to fix atmospheric nitrogen into a plant-available form.



# Coated Seed Rhizo



The advantages of Coated Seed therefore apply not only to single seeds, but also to seed mixtures, regardless of whether they are sown manually or by machine. In extreme locations (embankments or slopes), that are difficult or impossible to work on, preparatory soil cultivation measures can be dispensed with and sowing can be carried out thanks to the increased thousand grain weight.

## Naked seeds vs. Coated Seed



Figure 1: Evaporation vs. water absorption

## Benefits of Coated Seed Rhizo

- Ready to use immediately
- Higher yields than untreated seeds
- Rapid symbiosis through direct contact with the seeds, resulting in fast nitrogen fixing
- No additional passes or prior inoculation required
- Higher emergence rates through improved soil contact
- The coating can quickly absorb available water and provide it to the seedling when needed
- Improved establishment on challenging sites
- Easy sowing and even distribution pattern thanks to improved flow
- Uniform seeds allow for precise storage
- The plant health booster promotes health and increases the resilience of young plants
- The Coated Seed remains securely in place – protection from drift
- Individual colouration for simplified visual control
- Simple and straightforward handling



# Coated Seed Rhizo



## Application

The product is ready for immediate use and can be treated like naked seeds. Please note that the higher thousand grain weight reduces the amount of seeds applied. However, a large part can be compensated by the better field emergence of Coated Seed. Therefore, only a slight increase in the sowing rate of 10-15 % is recommended.

## Dry mass and raw protein yield with red clover-grass

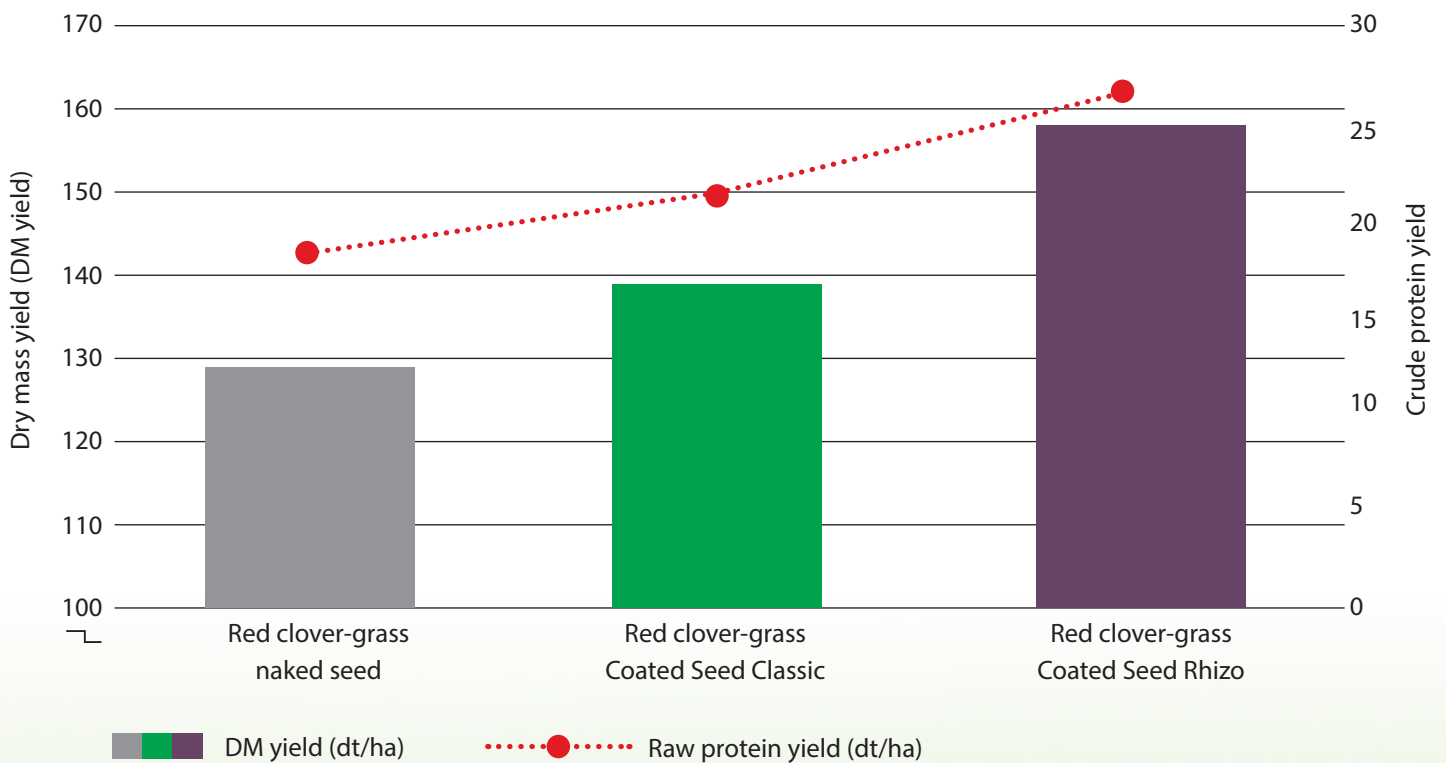


Figure 2: Results of a dry mass and raw protein yield trial of red clover-grass leys using Coated Seed Classic and Coated Seed Rhizo compared to naked seeds in the first main production year\*

It is clearly visible that the use of Coated Seed Rhizo in this trial was able to bring about an increase in DM yields of over 2,500 kg/ha compared to untreated seeds. The use of Coated Seed Rhizo was also able to increase raw protein yield.

# Coated Seed Rhizo



## Dry mass and raw protein yield with alfalfa-grass

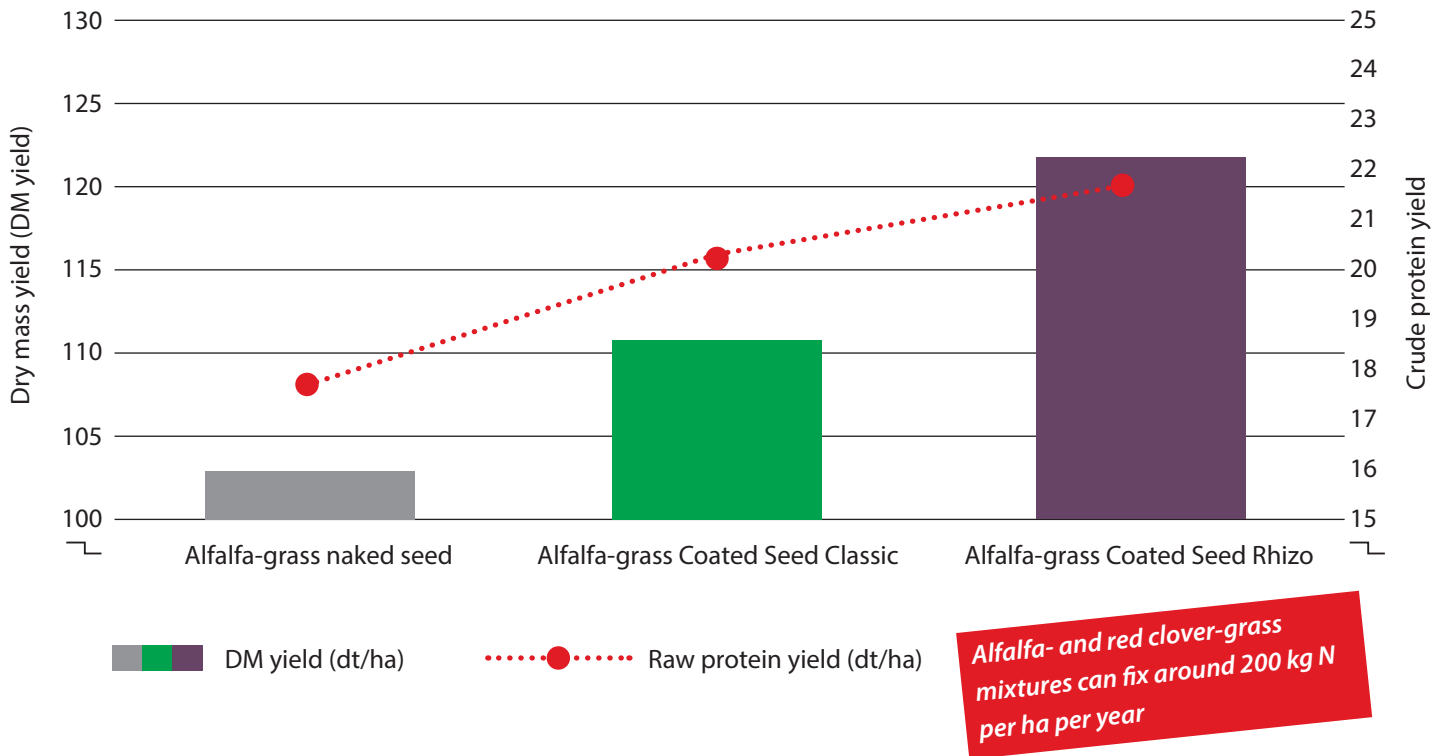


Figure 3: Averaged test results on dry matter and crude protein yields in alfalfa-grass with balanced ratio when using Coated Seed Classic and Coated Seed Rhizo compared to naked seeds\*

Also in this trial it is clearly evident that the use of Coated Seed means a significant added value that can be achieved, both in terms of dry matter and crude protein yields. The use of the Coated Seed Rhizo leads to an average DM yield increase of almost + 20 dt/ha compared to the untreated variant. The crude protein yield could also be increased through the use of Coated Seed Rhizo.

\*The figures 2 and 3 show averaged dry matter and crude protein yields that can be achieved by changing the factor seed. The data come from various field trials in the temperate climatic zones of Central Europe, which have been summarised here in a simplified manner.

**Keep away from children and animals**  
**Store in a cool, dry place**

Any questions? Please feel free to contact us!

+49 2151 - 44 17 0

info@freudenberger.net