

# Technical Information



## abv Glucanase 200 BGD 511)

### Description

abv Glucanase 200 is a food grade enzyme complex which hydrolyses beta-glucans, pentosans and related carbohydrates of barley and malted barley.

abv Glucanase 200 is produced by the fermentation of a selected strain of *Geosmithia emersonii* and *Penicillium funiculosum*.

The micro-organisms used for the production of abv Glucanase 200 are developed by traditional non-GMO techniques.

### Benefits

abv Glucanase 200 provides a consistent source of necessary beta-glucanase which is essential in efficient wort separation and preventing run-off problems caused by  $\beta$ -glucans and complex pentosans due to variations in crop quality.

abv Glucanase 200 can also reduce the risk of haze in downstream beer due to  $\beta$ -glucans, thereby improving beer filterability.

### Dose rate

Typical dose rates are

In the brewhouse 0.5-1.5 kg/t grist

In beer 0.5-1.0 ml/hl beer

### Application

For optimum effect, it is recommended that abv Glucanase 200 is added directly into the mash vessel along with the grist during 'mashing-in'.

If  $\beta$ -glucans have been identified as the cause of beer filtration problems, or beer haze, then abv Glucanase 200 may be added into the beer prior to the filter to resolve these issues.

### Activity

Activity 2000+/- 100 U/g

### Properties

abv Glucanase 200 is a brown coloured liquid with a specific gravity of 1.05-1.10

Colour may vary from batch to batch.

### Microbiological specification

Total viable count <50000/g

Coliforms < 30/g

E. coli absent in 25 g

Salmonella sp. absent in 25 g

Mycotoxins negative by test

Antibiotic activity negative by test

### Heavy metals specification

Arsenic < 3 mg/kg

Lead < 5 mg/kg

Heavy metals (as Pb) <30 mg/kg

### Conformity to standards

abv Glucanase 200 meets the specifications laid down by the Joint FAO/WHO Expert Committee on Food Additives (JEFCA) and the Food Chemicals Codex. When used as a processing aid under 21 CFR 101.00 it may be exempt from FDA labelling requirements and is usually not listed.

### Packaging and storage

abv Glucanase 200 is available in 25kg or 1000 kg containers.

The product should be stored in a dry cool area (max 10°C) and sheltered against direct sunlight. Under these conditions the specified activity will be maintained for at least six months.

### Safety and handling

Avoid unnecessary contact with enzyme preparations during handling. In case of spillage rinse with water.

Additional information can be found in the Material Safety Data Sheet.