

Technical Information



abv Glucanase Plus (BGP 511)

Description

abv Glucanase Plus is a food grade fungal beta-glucanase and hemicellulase preparation produced by the fermentation of a non-GMO strain of *Trichoderma longibrachiatum*.

abv Glucanase Plus mode of action can be described as catalyzing endo-hydrolysis of beta-glucans 1,4-beta-glucosides and 1,4-beta-xylans in wheat, barley and other cereal substrates.

Benefits

abv Glucanase plus provides a consistent source of necessary beta-glucanase which will significantly improve lautering and wort filterability problems, caused by β -glucans and complex pentosans due to variations in crop quality.

abv Glucanase Plus also reduces the risk of hazes in beer caused by beta-glucans and improves beer filterability.

Dose rate

Typical dose rates are

In the brewhouse	300-400 ml/t grist
In beer	0.1-0.3 ml/hl

Application

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

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

Activity

Activities: b-glucanase	10400-12700 U/g
Xylanase	2000 U/g
CMC-ase	37000 U/g

Properties

abv Glucanase Plus is an amber coloured liquid with a specific gravity of 1.1-1.25

Colour may vary from batch to batch.

Microbiological specification

Total viable count	<50000/g
Coliforms	< 30/g
E. coli	absent in 25g
Salmonella sp.	absent in 25g
Yeast & moulds	<100/g
Mycotoxins	negative by test
Antibiotic activity	negative by test

Heavy metals specification

Arsenic	< 3 mg/kg
Lead	< 5 mg/kg
Cadmium	< 0.1mg/kg
Mercury	<0.03 mg/kg
Heavy metals as Pb	< 40 mg/kg

Conformity to standards

abv Glucanase Plus 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 Plus is available in 25 kg 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.