

LAFASE® XL G-AMYL

Highly concentrated glucoamylase enzyme formulation for the production of grain-based beverages (Exo-1,4-D-glucosidase: EC.3.2.1.3.)

Suitable for the preparation of products intended for direct human consumption, non-GMO product. Complies with EU regulations 1332/2008, 1333/2008, JECFA and the French order of 19/10/2006 on the use of processing aids.

SPECIFIC CHARACTERISTICS AND PROPERTIES

LAFASE® XL G-AMYL hydrolyses the bonds of starch, dextrins and oligosaccharides from the non-reducing end of the chain to form D-glucose.

LAFASE® XL G-AMYL optimises the conversion of starch into fermentable sugars (better attenuation) and minimises residual carbohydrates (fewer calories).

- Optimum pH 3.8 4.2.
- Optimum temperature: around 65°C (149°F).

PHYSICAL CHARACTERISTICS

| PHYSICAL CHARACTERISTICS | |
|---|---|
| | Standardisation activity (U/mL)1,600 s-Amylase Approximate density (g/mL) |
| Insoluble matternone | |
| CHEMICAL AND MICROBIOLOGICAL ANALYSES | |
| Toxins and mycotoxinsnot detectable | Lead (ppm)<5 |
| Total aerobic mesophilic flora<5.10 ⁴ CFU/mL | Arsenic (ppm)<3 |
| Coliforms (CFU/g)<30 | Mercury (ppm)<0.5 |
| E.coli (/25 g)none | Cadmium (ppm)<0.5 |
| Salmonella (/25 g) none | |

COMPOSITION

Water, glucoamylase, sodium benzoate (E211 - 0.3%), potassium sorbate (E202 - 0.2%).



PROTOCOL FOR USE

CONDITIONS AND IMPLEMENTATION

- To be added to the grain load or at the wort stage.
- The dose and time of application must be respected. Later application during fermentation or storage leads to separation of the glucose and may result in a change in taste (stronger impression of sweetness) if the dose is not correct.

DOSAGE AND AND REGULATIONS

- · Saccharification during the production of alcohol from starchy raw materials: 500 ml/tonne of raw material.
- Beer: 50 200 mL/t in the grain load
- Worts and young beers: 2 10 mL/hL.
- Decomposition of residual starch in the production of apple juice concentrate: 10 25 mL/1,000 L of juice (12° Bx) The user should check national regulations.

ADDITION

Dilute LAFASE® XL G-AMYL in cold water and add during a pump-over. The reduction in activity due to the temperature in the washback is taken into account in the recommended dose. This ensures optimum effect even at temperatures of around 2°C (36°F). We recommend carrying out preliminary laboratory tests to predict the impact on the final product.

STORAGE RECOMMENDATION

- Store off the ground in the original unopened packaging in a cool (2 10° C / 36 - 500° F) and dry area not liable to impart odours.
- · Optimal date of use: 3 years.

PACKAGING

1 L / 1.1 kg jerry can.

