## β-GLUCANASE from TRICHODERMA HARZIANUM

Prepared at the 55th JECFA (2000) and published in FNP 52 Add 8 (2000), superseding specifications prepared at the 39th JECFA (1992) and published in FNP 52 Add 1 (1992). An ADI "Not specified" was established at the 39th JECFA (1992).

| SOURCES | Produced by the controlled fermentation of non-pathogenic and non-<br>toxicogenic strains of <i>Trichoderma harzianum</i> (classification by Rifai M.A.,<br>Mycological Papers, No. 116, pages 1-56, 1969) and isolated from the<br>growth medium. |
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- Active principles Endo-1,3-beta-glucanase (synonym: laminarinase) Exo-1,3-beta-glucanase
- Systematic names and 1,3-(1,3; 1,4)-beta-D-glucan 3(4) glucanohydrolase (EC 3.2.1.6; C.A.S. numbers No. 62213-14-3) Glucan 1.3-beta-glucosidase (EC 3.2.1.58; C.A.S. No. 9073-49-8)
- Reactions catalyzed Hydrolyzes beta-1,3 or beta-1,4 linkages in 1,3 (1,4)-beta-D-glucans vielding glucose.
- Secondary enzyme Hemicellulase activities Cellulase (1,4-[1,3;1,4]-beta-D-Glucan 4-glucano-hydrolase); (EC 3.2.1.4; C.A.S. No. 9012-54-8) Pectinase (Poly (1,4-alpha-D-galacturonide) glycanohydrolase); (EC 3.2.1.15; C.A.S. No. 9032-75-1)
- DESCRIPTION Typically off-white to tan amorphous powders or tan to dark-brown liquids. These products are concentrated and standardised with food-grade diluents or carriers such as maltodextrin, starch or glucose to obtain commercial preparations. Soluble in water and practically insoluble in ethanol and ether.
- **FUNCTIONAL USES** Enzyme preparation Used in the preparation of fruit juices, wine, beer and vegetable oils
- GENERAL Must conform to the General Specifications for Enzyme Preparations Used in Food Processing (see Volume Introduction) SPECIFICATIONS

## **CHARACTERISTICS**

**IDENTIFICATION** 

β-Glucanase activity The sample shows  $\beta$ -glucanase activity

(Vol. 4)