Cellulase R-10 [Onozuka R-10]

Product ID C224

Description

Cellulase Onozuka R-10 contains high cellulase activity. It is often used in the isolation of plant protoplasts when combined with Macerozyme R-10 or other enzymes. It contains 1U/mg of cellulase activity, meaning one unit of cellulase will liberate 1 micro mole of glucose from carboxylmethyl cellulose. Cellulase activity is inhibited by glucose and cellobiose. Moreover, it is completely inhibited by Hg2+ and slightly inhibited by Mn+, Ag2+, Zn2+ and Cu2+. Cellulase Onozuka R-10 also contains approximately 1 U/mg of hemicellulase activity, 0.80 U/mg of α-amylase activity, 0.4 U/mg of pectinase activity, and 0.01 U/mg of protease activity

Cellulase Onozuka R-10 is derived from *Trichoderma viride*. It is a multi-enzymatic system consisting of cellulase, α-amylase, hemicellulase, pectinase, and protease activity. Cellulase acts together with other enzymes to degrade cell walls by modifying celluloses, lichenin, and cereal β-D-glucans. It modifies cellulose by hydrolyzing 1,4-β-D-glucosidic linkages. Other enzyme like α-amylase break down 1,4-α-D-glucosidic linkages in polysaccharides while 1,4-α-D-galastosiduronic linkages in galacturans are randomly cleaved by pectinase.

Product Information

Solubility	Water
Powder Form	Powder
Product Number	C224
CAS Number	9012-54-

Shipping and Storage

Storage Temp.	2 to 8 °C
Tariff Code	3507.90.7000

`PhytoTechnology Laboratories®
14610 W 106th St. Lenexa, KS 66215

India Contact:

Life Technologies (India) Pvt. Ltd.

Ph: +91-11-42208000, 42208111, 42208222, Mobile: +91-9810521400, Fax: +91-11-42208444
Email: customerservice@lifetechindia.com Website: www.lifetechindia.com