

Macerozyme R-10

Product ID M481

Description

Macerozyme R-10 contains 0.5 U/mg of pectinase activity, 0.25 U/mg of hemicellulase activity, and 0.1 U/mg of cellulase activity. The pectinase activity of Macerozyme R-10 is calculated as D-galacturonic acid; 0.5 unit of pectinase activity at pH 4.5 will liberate 1 μ mol of its reducing group per minute at 25°C from pectic acid. As for hemicellulase activity, its activity is calculated as xylose; 0.25 unit of hemicellulase activity at pH 5.5 will liberate 1 μ mol of its reducing group per hour at 37°C from beechwood xylan. Lastly, 0.1 unit of cellulase activity at pH 4.5 will liberate from sodium carboxymethyl cellulose 1 μ mol of glucose at 40°C per minute.

Macerozyme R-10 is derived from *Rhizopus* sp. It is a multi-enzymatic system consisting of high pectinase and hemicellulase activities and low cellulase activities. Macerozyme R-10 is useful in isolating single plant cells by degrading plant cell wall. It is often used with Cellulase Onozuka R-10 and Cellulase Onozuka RS.

Product Information

Solubility	Water
Physical Form	Powder
Product Number	M481
CAS Number	9032-75-1

Shipping and Storage

Storage Temp.	2 to 8 °C
Tariff Code	3507.90.7000

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