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FDS



COO/COA



Fiche des
caractéristiques

Plus de
documents


P2401 ▶ **Sigma-Aldrich.**

Pectinase from *Rhizopus* sp.

★★★★★ (0)

powder, 400-800 units/g solid

Synonyme(s):

Macerozyme R-10, Poly-(1,4- α -D-galacturonide) glycanohydrolase, Polygalacturonase

Numéro CAS: **9032-75-1**

Numéro de classification
(Commission des enzymes):

3.2.1.15 (BRENDA, IUBMB)

Numéro EC: **232-885-6**

Numéro MDL:

MFCD00131809

NACRES: NA.54

Référence	Conditionnement	Disponibilité	Prix	Quantité
P2401-500UN	500 UNITS	Disponible pour expédition le 10 octobre 2022	Détails... 55,90 €	- +
P2401-1KU	1000 UNITS	Disponible pour expédition le 10 octobre 2022	Détails... 114,00 €	- +
P2401-5KU	5000 UNITS	Only 2 left in stock (more on the way)	Détails... 410,00 €	- +

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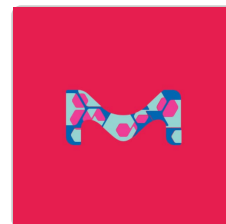

PRODUITS RECOMMANDÉS



Sigma-Aldrich

P4716**Pectinase from *Aspergillus niger***

BioReagent, suitable for plant cell culture, aqueous glycerol solution, ≥ 5 units/mg protein (Lowry)

[Consulter le prix et la disponibilité](#)


Sigma-Aldrich

17389**Pectinase from *Aspergillus niger***

powder, slightly beige, > 1 U/mg

[Consulter le prix et la disponibilité](#)

PROPRIÉTÉS

Forme powder

Niveau de qualité 200

specific activity 400-800 units/g solid

Caractéristiques du produit alternatif plus écologique

Waste Prevention
Design for Energy Efficiency
Learn more about the [Principles of Green Chemistry](#).

Autre catégorie plus écologique [Enabling](#)

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Catégories apparentées

Greener Alternative Products

DESCRIPTION

Description générale

We are committed to bringing you Greener Alternative Products, which adhere to one or more of The 12 Principles of Greener Chemistry. This product has been enhanced for energy efficiency and waste prevention when used in cellulosic ethanol research. For more information see the [article in biofiles](#) and [Enzymes for Alternative Energy Research](#).

Pectinase, also known as pectinolytic enzyme, is predominantly found in bacteria, fungi and plants. Polygalacturonase is one of the highly abundant enzymes among all the pectinolytic enzymes. Pectinase has a wide range of industrial applications including, fruit juice extraction and its clarification. In addition, it is also used in vegetable oil extraction, tea and coffee fermentations, bleaching of paper, in poultry feed additives and in alcoholic beverages and food industries.

Application

Pectinase from *Rhizopus sp* has been used for enzymatic digestion of leaves.

Used in plant protoplast preparation to digest cell wall prior to organelle isolation.

Actions biochimiques/physiologiques

Pectinases hydrolyses pectin, which is a component of the cell wall. They may attack methyl-esterified pectin or de-esterified pectin. It is a source of pectinase activity, also containing cellulase and hemicellulase activities.

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[GET YOURS HERE](#)**Autres remarques**

View more information on [enzymes for complex carbohydrate analysis](#) at www.sigma-aldrich.com/enzymeexplorer

INFORMATIONS SUR LA SÉCURITÉ

Pictograms**GHS08****Mention d'avertissement**

Danger

Mentions de danger**H334****Conseils de prudence****P261 - P284 - P501****Classification des risques**

Resp. Sens. 1

Code de la classe de stockage

11 - Combustible Solids

WGK

WGK 3

Flash Point(F)

Not applicable

Point d'éclair C

Not applicable

Équipement de protection individuelle

Eyeshields, Gloves, type N95 (US)

DOCUMENTATION

Certificat d'analyse

Saisir un numéro de lot pour rechercher un certificat d'analyse (COA).

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Rechercher

Certificat d'origine

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Numéro de lot

e.g. 023J5431

Comment saisir un numéro de lot (COO)

Rechercher

Informations Techniques

[\(P2401\) - Enzyme Assay](#)

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[FDS](#)

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ARTICLES REVUS PAR DES PAIRS

Pectinase production by *Neurospora crassa*: purification and biochemical characterization of extracellular polygalacturonase activity

Maria de Lourdes T. M. Polizeli, et al.
Microbiology, 137, 1815-1823 (1991)

Isolation of intact sub-dermal secretory cavities from *Eucalyptus*

Goodger JQ, et al.
Plant methods, 6(1), 20-20 (2010)

Arabidopsis peroxin 16 coexists at steady state in peroxisomes and endoplasmic reticulum.

Sheetal K Karnik et al.
Plant physiology, 138(4), 1967-1981 (2005-07-26)

Homologs of peroxin 16 genes (PEX16) have been identified only in *Yarrowia lipolytica*, humans (*Homo sapiens*), and *Arabidopsis* (*Arabidopsis thaliana*). The *Arabidopsis* gene (AtPEX16), previously reported as the SSE1 gene, codes for a predicted 42-kD membrane peroxin protein (AtPex16p). Lin

Microbial pectinolytic enzymes: a review

Jayani Ranveer Singh, et al.
Process. Biochem., 40(9), 2931-2944 (2005)

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PROTOCOLES ET ARTICLES SCIENTIFIQUES

Articles

Carbohydrate Analysis III

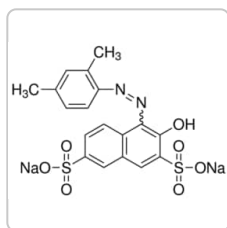
A key resource feature at our Enzyme Explorer section of biochemicals is "Enzymes for Carbohydrate Analysis and Digestion." Offering kits, reagents, analysis, lists of enzymes related to PTM and carbohydrate metabolism.

Protocoles

Enzymatic Assay of Pectinase

Objective: To standardize a procedure for determining the enzymatic activity of Pectinase.

PRODUITS CONSULTÉS RÉCEMMENT

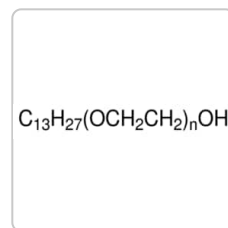


Sigma-Aldrich

P2395

Ponceau Xylidine

Dye content $\geq 60\%$



Sigma-Aldrich

P2393

Polyoxyethylene (10) tridecyl ether

mixture of C₁₁ to C₁₄ iso-alkyl ethers with C₁₃ iso-alkyl predominating

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Questions

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