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**10115** ▶ **Sigma-Aldrich.**

## Amyloglucosidase from *Aspergillus niger*

★★★★★ (0)

lyophilized, powder, ~70 U/mg

#### Synonyme(s):

1,4- $\alpha$ -D-Glucan glucohydrolase, Exo-1,4- $\alpha$ -glucosidase, Glucoamylase

Numéro CAS: **9032-08-0**

Numéro EC: **232-877-2**

NACRES: NA.54

Numéro de classification  
(Commission des enzymes): **3.2.1.3 (BRENDA, IUBMB)**

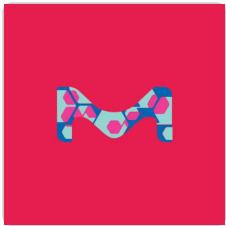
Numéro MDL: **MFCD00081350**

| Référence  | Conditionnement | Disponibilité                                                            | Prix     | Quantité                            |
|------------|-----------------|--------------------------------------------------------------------------|----------|-------------------------------------|
| 10115-1G-F | 1 G             | Disponible pour expédition le 03 octobre 2022 <a href="#">Détails...</a> | 97,60 €  | <div><div>-</div><div>+</div></div> |
| 10115-5G-F | 5 G             | Disponible pour expédition le 03 octobre 2022 <a href="#">Détails...</a> | 356,00 € | <div><div>-</div><div>+</div></div> |

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PRODUITS RECOMMANDÉS



Sigma-Aldrich  
**A7095**  
Amyloglucosidase from *Aspergillus niger*  
≥260 U/mL, aqueous solution

Consulter le prix et la disponibilité



Sigma-Aldrich  
**A7420**  
Amyloglucosidase from *Aspergillus niger*  
lyophilized powder, 30-60 units/mg protein (biuret),  
≤0.02% glucose

Consulter le prix et la disponibilité

PROPRIÉTÉS

|                                                        |                                                                                                                          |
|--------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Forme                                                  | powder                                                                                                                   |
| Niveau de qualité                                      | 200                                                                                                                      |
| Qualité                                                | lyophilized                                                                                                              |
| specific activity                                      | ~70 U/mg                                                                                                                 |
| Poids mol.                                             | M <sub>r</sub> ~97,000                                                                                                   |
| Caractéristiques du produit alternatif plus écologique | Waste Prevention<br>Design for Energy Efficiency<br>Learn more about the <a href="#">Principles of Green Chemistry</a> . |
| Paramètre                                              | temperature at 50 °C (optimum temperature)                                                                               |

Autre catégorie plus écologique [Enabling](#)

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Temp. de stockage 2-8°C

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Vous recherchez des produits similaires ? Visitez [Guide de comparaison des produits](#)

## Catégories apparentées

[Greener Alternative Products](#)

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## 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 starch hydrolysis research. For more information see the [article in biofiles](#).

Amyloglucosidase is a disaccharide enzyme belonging to the  $\alpha$ -glucosidase type. It is produced by several species of *Aspergillus* genus.

### Application

Amyloglucosidase from *Aspergillus niger* has been used in glycogen assay and in acetate buffer for starch hydrolysis. It can also be used for glycogen determination in whole yeast cells and synthesis of hetero-oligosaccharides by glucoamylase in reverse.

### Définition de l'unité

One unit corresponds to the amount of enzyme which liberates 1  $\mu$ mole of glucose per minute at pH 4.8 and 60 °C (starch acc. to Zulkowsky, Cat. No. 85642, as substrate).

## 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).

Numéro de lot

e.g. 023J5431

## Comment saisir un numéro de lot (COA)

Rechercher

## Certificat d'origine

Saisir un numéro de lot pour rechercher un certificat d'origine (COO).

Numéro de lot

e.g. 023J5431

## Comment saisir un numéro de lot (COO)

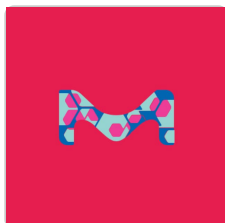
Rechercher

## Plus De Documents

[Enzyme Explorer](#)

[FDS](#)

## LES CLIENTS ONT ÉGALEMENT CONSULTÉ

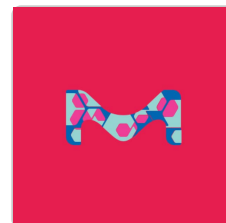


Sigma-Aldrich

**172426**

**Glucoamylase, *Rhizopus sp.***

Glucoamylase is a multi-domain enzyme that belongs to the glycosyl hydrolase 15 family. Useful for the enzymat...



Sigma-Aldrich

**10065**

**$\alpha$ -Amylase from *Aspergillus oryzae***

powder, ~30 U/mg

[Consulter le prix et la disponibilité](#)[Consulter le prix et la disponibilité](#)

## QUESTIONS FRÉQUEMMENT POSÉES (FAQ)

### Which document(s) contains shelf-life or expiration date information for a given product?

If available for a given product, the recommended re-test date or the expiration date can be found on the Certificate of Analysis.

### How do I get lot-specific information or a Certificate of Analysis?

The lot specific COA document can be found by entering the lot number above under the "Documents" section.

### How do I find price and availability?

There are several ways to find pricing and availability for our products. Once you log onto our website, you will find the price and availability displayed on the product detail page. You can contact any of our Customer Sales and Service offices to receive a quote. USA customers: 1-800-325-3010 or view [local office numbers](#).

### What is the Department of Transportation shipping information for this product?

Transportation information can be found in Section 14 of the product's (M)SDS. To access the shipping information for this material, use the link on the product detail page for the product.

### What is the molecular weight of Product 10115, Amyloglucosidase from Aspergillus niger?

Amyloglucosidase from *A. niger* exists in two isoforms with MWs of 69,810 and 89,130, as determined by SDS-PAGE. See: Starch, 34, 346 (1982).

### Does Product 10115, Amyloglucosidase from Aspergillus niger, contain any stabilizers or additives?

No extending additives such as glucose or sucrose are added. Only sodium acetate buffer salts are added. It is unknown if the starting material contained any additives.

### How can a solution of Product 10115, Amyloglucosidase from Aspergillus niger, be prepared?

A 1 mg/mL solution may be prepared in water, or in 10 mM sodium acetate buffer at approximately pH 4.8.

My question is not addressed here, how can I contact Technical Service for assistance?

Ask a Scientist [here](#).

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## ARTICLES REVUS PAR DES PAIRS

### **Stem girdling manipulates leaf sugar concentrations and anthocyanin expression in sugar maple trees during autumn**

**Murakami PF, et al.**

*Tree physiology*, 28(10), 1467-1473 (2008)

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### **Impact of high-fat diet on lifespan, metabolism, fecundity and behavioral senescence in *Drosophila*.**

**Sifang Liao et al.**

*Insect biochemistry and molecular biology*, 133, 103495-103495 (2020-11-11)

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Excess consumption of high-fat diet (HFD) is likely to result in obesity and increases the predisposition to associated health disorders. *Drosophila melanogaster* has emerged as an important model to study the effects of HFD on metabolism, gut function, behavior, and

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### **Trehalose is a key determinant of the quiescent metabolic state that fuels cell cycle progression upon return to growth**

**Shi Lei, et al.**

*Molecular Biology of the Cell*, 21(12), 1982-1990 (2010)

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### **Synchronicity of thermogenic activity, alternative pathway respiratory flux, AOX protein content, and carbohydrates in receptacle tissues of sacred lotus during floral development.**

**Nicole M Grant et al.**

*Journal of experimental botany*, 59(3), 705-714 (2008-02-07)

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The relationships between heat production, alternative oxidase (AOX) pathway flux, AOX protein, and carbohydrates during floral development in *Nelumbo nucifera* (Gaertn.) were investigated. Three distinct physiological phases were identified: pre-thermogenic, thermogenic, and post-thermogenic. The shift to thermogenic activity was associated

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*Biodiversity: New Leads for the Pharmaceutical and Agrochemical Industries*, 183-183 (2000)

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[Afficher tous les articles scientifiques apparentés](#)

## PRODUITS CONSULTÉS RÉCEMMENT



Sigma-Aldrich

**10113**

**Amyloglucosidase from *Aspergillus niger***  
powder, white, ~120 U/mg

[Consulter le prix et la disponibilité](#)

Sigma-Aldrich

**10069**

**$\alpha$ -Amylase from *Bacillus* sp.**  
powder, yellow-brown, ~380 U/mg

[Consulter le prix et la disponibilité](#)

## Évaluations

[Soyez le premier à donner votre avis sur ce produit](#)

## Questions

[Soyez le premier à poser une question](#)

## SERVICE TECHNIQUE

Notre équipe de scientifiques dispose d'une expérience dans tous les secteurs de la recherche, notamment en sciences de la vie, science des matériaux, synthèse chimique, chromatographie, analyse et dans de nombreux autres domaines..

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