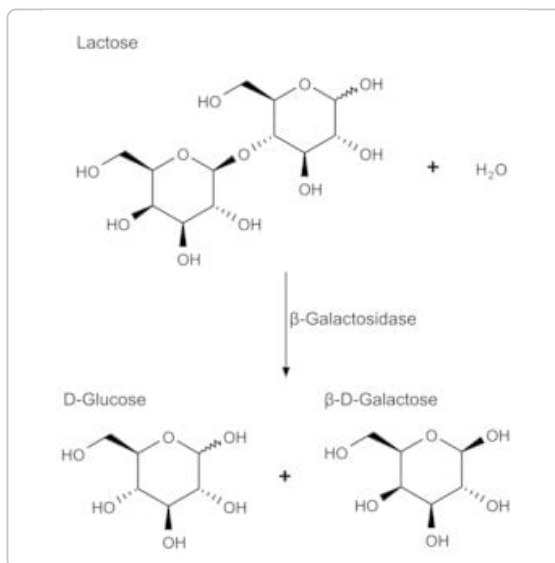


**G6008** ► **Sigma-Aldrich.**

β-Galactosidase from *Escherichia coli*

★ ★ ★ ★ ★ 1.0 (1)

Grade VI, lyophilized powder, ≥250 units/mg protein

[Toutes les photos \(1\)](#)**Synonyme(s):**

β-D-Galactoside galactohydrolase, Lactase

Numéro CAS:**9031-11-2****Numéro de classification (Commission des enzymes):****3.2.1.23 (BRENDA, IUBMB)****Numéro EC:****232-864-1****Numéro MDL:****MFCD00130623****NACRES:**

NA.54

Select an Option

Référence

G6008-1KU



1000 UNITS

139,00 €

Date d'expédition estimée le 24 octobre 2022

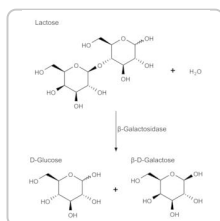
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1

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Documents

[↓ FDS](#)[🔍 COO/COA](#)[📄 Fiche des caractéristiques](#)[Plus de documents >>](#)**PRODUITS RECOMMANDÉS**

Sigma-Aldrich

G5635**β-Galactosidase from *Escherichia coli***

Grade VIII, lyophilized powder, ≥500 units/mg protein

[Consulter le prix et la disponibilité](#)[<](#) 1 of 10 [>](#)

PROPRIÉTÉS

Source biologique*Escherichia coli***Niveau de qualité**

200

Type

Grade VI

Forme

lyophilized powder

specific activity

≥250 units/mg protein

Poids mol.

465 kDa

Ne contient pas

BSA as extender

Composition

Protein, ≥50% biuret

Expédié(e)s dans

wet ice

Temp. de stockage

-20°C

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

DESCRIPTION

Description générale

β-Galactosidase is a tetramer consisting of four equal subunits of 135,000 Da each. It is a sulfhydryl containing enzyme, with 19 cysteine residues per subunit.

Application

β -Galactosidase is conjugated to an antibody that specifically recognizes a target molecule (enzyme immunoassay or EIA). β -Galactosidase is also used as a reporter enzyme to monitor the level of gene expression of a promoter.

Conditionnement

1000, 5000 units in glass bottle

10000 units in poly bottle

Actions biochimiques/physiologiques

β -galactosidase cleaves lactose into its monosaccharide components, glucose and galactose. It also catalyses the transglycosylation of glucose into allolactose, the inducer of β -galactosidase, in a feedback loop.

β -galactosidase cleaves lactose into its monosaccharide components, glucose and galactose. It also catalyses the transglycosylation of glucose into allolactose, the inducer of β -galactosidase, in a feedback loop.

Propriétés physiques

Tetramer molecular weight 465 kDa (subunits 116.3 kDa each)

Définition de l'unité

One unit will hydrolyze 1.0 μ mole of o-nitrophenyl β -D-galactoside to o-nitrophenol and D-galactose per min at pH 7.3 at 37 °C.

Forme physique

Partially purified; contains Tris buffer salts, magnesium chloride, DL-dithiothreitol and 2-mercaptoethanol

PRODUITS APPARENTÉS

Inhibiteur

D6518

Diethylenetriaminepentaacetic acid, $\geq 99\%$ (titration)

[View Pricing](#)

P9375

1,10-Phenanthroline monohydrate, reagent grade

[View Pricing](#)**E4378**

Ethylene glycol-bis(2-aminoethylether)-*N,N,N',N'*-tetraacetic acid, ≥97.0%

[View Pricing](#)**ED2SS**

Ethylenediaminetetraacetic acid disodium salt dihydrate, reagent grade, 98.5-101.5% (titration)

[View Pricing](#)**Substrat****M1633**

4-Methylumbelliferyl β-D-galactopyranoside, ≥99% (TLC)

[View Pricing](#)**B4252**

5-Bromo-4-chloro-3-indolyl β-D-galactopyranoside, ≥98%, powder

[View Pricing](#)**B6024**

5-Bromo-4-chloro-3-indolyl β-D-galactopyranoside, tablet

[View Pricing](#)**F2756**[View Pricing](#)**B4387**

5-Bromo-3-indolyl β-D-galactopyranoside, ≥98%

[View Pricing](#)**INFORMATIONS SUR LA SÉCURITÉ**

Code de la classe de stockage

13 - Non 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).

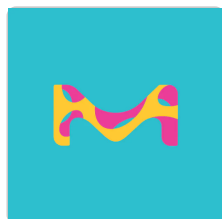
Numéro de lot

e.g. 023J5431

Comment saisir un numéro de lot (COO)**Rechercher****Plus De Documents**[Enzyme Explorer](#)

FDS

LES CLIENTS ONT ÉGALEMENT CONSULTÉ



USP

1356698**Lactase**

United States Pharmacopeia (USP) Reference Standard

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ARTICLES REVUS PAR DES PAIRS

[Enzyme-linked immunoassay: conjugation of the Fab' fragment of rabbit IgG with beta-D-galactosidase from E. coli and its use for immunoassay.](#)

K Kato et al.*Journal of immunology (Baltimore, Md. : 1950), 116(6), 1554-1560 (1976-06-01)*

1. A method for the conjugation of the Fab' fragment of rabbit IgG with beta-D-galactosidase from Escherichia coli is described. The method consists of two main steps: treatment of the Fab' fragments containing sulfhydryl groups with excess N,N'-o-phenylenedimaleimide, to introduce

PURIFICATION, COMPOSITION, AND MOLECULAR WEIGHT OF THE BETA-GALACTOSIDASE OF ESCHERICHIA COLI K12.

G R CRAVEN et al.*The Journal of biological chemistry, 240, 2468-2477 (1965-06-01)*

[Selective inactivation of eukaryotic beta-galactosidase in assays for inhibitors of HIV-1 TAT using bacterial beta-galactosidase as a reporter enzyme.](#)

D C Young et al.*Analytical biochemistry, 215(1), 24-30 (1993-11-15)*

Bacterial beta-galactosidase is one of several reporter enzymes used in studying the transcriptional activity of eukaryotic promoters. Although it is one of the easiest and least expensive enzymes to assay, its use has been limited because of its low sensitivity

[Structural comparisons of TIM barrel proteins suggest functional and evolutionary relationships between beta-galactosidase and other glycohydrolases.](#)

D H Juers et al.*Protein science : a publication of the Protein Society, 8(1), 122-136 (1999-04-21)*

Beta-galactosidase (lacZ) from Escherichia coli is a 464 kDa homotetramer. Each subunit consists of five domains, the third being an alpha/beta barrel that contains most of the active site residues. A comparison is made between each of the domains and

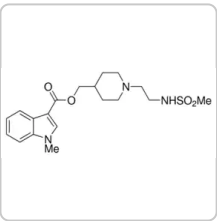
Oncolytic vaccinia virus therapy of salivary gland carcinoma.

Natalya Chernichenko et al.
JAMA otolaryngology-- head & neck surgery, 139(2), 173-182 (2013-02-23)

To examine the therapeutic effects of an attenuated, replication-competent vaccinia virus (GLV-1h68) against a panel of 5 human salivary gland carcinoma cell lines. The susceptibility of 5 salivary gland carcinoma cell lines to infection and oncolysis by GLV-1h68 was assessed

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PRODUITS CONSULTÉS RÉCEMMENT



Sigma-Aldrich
G5918
GR 113808
≥98% (HPLC), solid

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< 1 of 10 >

Évaluations

Rédiger une évaluation

Description sommaire de la notation

Sélectionnez une ligne ci-dessous pour filtrer les avis.

5 ★		0
4 ★		0
3 ★		0
2 ★		0
1 ★		1

Notes moyennes des clients

Générale



1.0

Richard

★★★★★ · il y a 24 jours

Avis 1

Votes 0

HETEROGENEOUS

We were trying to use this as a protein standard and found it to be a heterogeneous mess. Not sure what all is in here, but its a lot more than betagalactosidase

[Traduire avec Google](#)Utile ? [Oui · 0](#) [Non · 0](#) [Signaler](#)**RÉPONSE DE SIGMA-ALDRICH CORPORATION :****Technical Support** · il y a 6 jours

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<https://www.sigmaaldrich.com/support/customer-support> and submit a Report Product Issue ticket. We look forward to hearing from you soon!

★★★★★ 1.0 | [1 avis](#)

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questions**0**
réponses

Questions

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