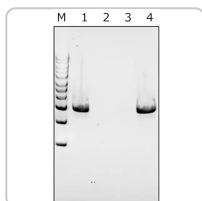


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Documents



FDS



COO/COA



Fiche des
caractéristiques

SAE0092 ▶ **Sigma-Aldrich®**

Mutanolysin from *Streptomyces globisporus* ATCC 21553

★★★★★ (0)

free of DNA contaminants, suitable for Microbiome research, lyophilized powder, ≥4000 units/mg protein (biuret)

Synonyme(s):

Mutanolysin

Numéro CAS:

55466-22-3

Numéro MDL:

MFCD00131635

Référence	Conditionnement	Disponibilité	Prix	Quantité
SAE0092-10KU	10 KU	Only 5 left in stock (more on the way)	Détails... 179,00 €	– +

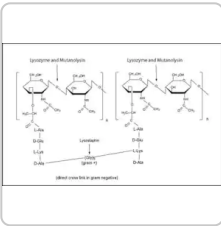
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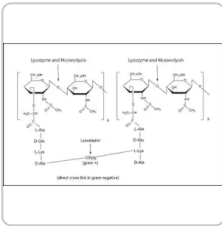
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Sigma-Aldrich
M9901
Mutanolysin from *Streptomyces globisporus* ATCC 21553
lyophilized powder, ≥4000 units/mg protein (biuret),
Chromatographically purified



Sigma-Aldrich
SRE0007
Mutanolysin from *Streptomyces globisporus* ATCC 21553
Suitable for manufacturing of diagnostic kits and reagents, ≥4000 units/mg protein (biuret)

Consulter le prix et la disponibilité

Consulter le prix et la disponibilité

PROPRIÉTÉS

Source biologique	<i>Streptomyces</i> sp. (<i>Streptomyces globisporus</i> ATCC 21553)
Forme	lyophilized powder
specific activity	≥4000 units/mg protein (biuret)
Poids mol.	23 kDa ~18.5 kDa
Caractéristique	DNA free
Expédié(e)s dans	wet ice
Temp. de stockage	-20°C

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Whole Cell Lysis Reagents & Enhancers

DESCRIPTION

Application

Provides gentle cell lysis for the isolation of easily degradable biomolecules and RNA from bacteria. It has been used in the formation of spheroplasts for isolation of DNA.

Purified Mutanolysin SAE0092 undergoes strict quality control testing to ensure the absence of detectable levels of contaminating DNA using 35 cycles PCR amplification of 16S and 18S rDNA using universal primer sets.

Mutanolysin is a muralytic enzyme, suitable for usage in isolation of nucleic acids, from Gram-positive bacteria (e.g. *Listeria*, *Lactobacillus*, *Lactococcus*),⁽⁸⁾ and also from other bacteria that are difficult to lyse with lysozyme only.

Actions biochimiques/physiologiques

Mutanolysin is an N-acetylmuramidase. Like lysozyme, it is a muralytic enzyme that cleaves the β -N-acetylmuramyl-(1 $\rightarrow$ 4)-N-acetylglucosamine linkage of the bacterial cell wall polymer peptidoglycan-polysaccharide. Its carboxy terminal moieties are involved in the recognition and binding of unique cell wall polymers. Mutanolysin lyses *Listeria* and other Gram-positive bacteria such as *Lactobacillus* and *Lactococcus*.

Définition de l'unité

One unit will produce a ΔA_{600} of 0.01 per minute at pH 6.0 at 37 °C in a 1 mL volume using a suspension of *Streptococcus faecalis* cell wall as substrate.

Forme physique

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INFORMATIONS SUR LA SÉCURITÉ

Code de la classe de stockage

11 - Combustible Solids

WGK

WGK 3

Flash Point(F)

Not applicable

Point d'éclair C

Not applicable

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).

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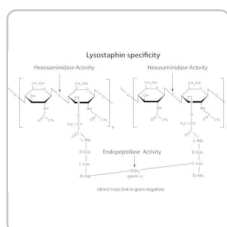


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Rechercher

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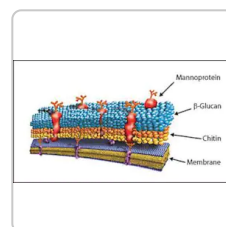
Sigma-Aldrich

L7386

Lysostaphin from *Staphylococcus staphylolyticus*

lyophilized powder, Protein 50-70 % by biuret,
≥500 units/mg protein

Consulter le prix et la disponibilité



Sigma-Aldrich

SRE0018

Lyticase from *Arthrobacter Luteus*

Suitable for manufacturing of diagnostic kits and
reagents, lyophilized powder, ≥2000 units/mg protein

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ARTICLES REVUS PAR DES PAIRS

Whole-Genome Sequencing in Microbial Forensic Analysis of Gamma-Irradiated Microbial Materials.

Stacey M Broomall et al.

Applied and environmental microbiology, 82(2), 596-607 (2015-11-15)

Effective microbial forensic analysis of materials used in a potential biological attack requires robust methods of morphological and genetic characterization of the attack materials in order to enable the attribution of the materials to potential sources and to exclude other

Lysis and protoplast formation of group B streptococci by mutanolysin.

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preparations, although degrading cell walls

Mutanolysin, bacteriolytic agent for cariogenic Streptococci: partial purification and properties.

K Yokogawa et al.

Antimicrobial agents and chemotherapy, 6(2), 156-165 (1974-08-01)

Mutanolysin partially purified from the culture filtrate of *Streptomyces globisporus* 1829 consists of two main lytic enzymes with an isoelectric point near pH 8.5 and 10, respectively, and proteolytic enzyme is associated with the latter lytic enzyme. Mutanolysin exhibited maximal

Dynamics of the Human Nasal Microbiota and Staphylococcus aureus CC398 Carriage in Pig Truck Drivers across One Workweek.

Anna Cécilia Ingham et al.

Applied and environmental microbiology, 87(18), e0122521-e0122521 (2021-07-01)

Drivers of pig trucks constitute a potential route of human transmission of livestock-associated methicillin-resistant *Staphylococcus aureus* clonal complex 398 (LA-MRSA CC398). In this study, we determined MRSA prevalence in pig truck drivers (n = 47) and monitored the nasal microbiota of 9

Changes in Skin and Nasal Microbiome and Staphylococcal Species Following Treatment of Atopic Dermatitis with Dupilumab.

Caroline Meyer Olesen et al.

Microorganisms, 9(7) (2021-08-08)

Investigation of changes in the skin microbiome following treatment of atopic dermatitis (AD) with dupilumab may provide valuable insights into the skin microbiome as a therapeutic target. The aim of this study is to assess changes in the AD skin

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Articles

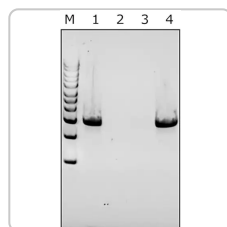
Lysing Enzymes

Enzymes provide a non-mechanical method for cell lysis and protoplast preparation. It may seem like a simple process to throw in your enzyme, stick your tube in the water-bath and walk away, but what is actually going on in that process?

Human Microbiome Research Workflow: An Overview of the Role in Human Health and Disease

An overview of human microbiome research, workflow challenges, sequencing, library production, data analysis, and available microbiome reagents to support your research.

PRODUITS CONSULTÉS RÉCEMMENT



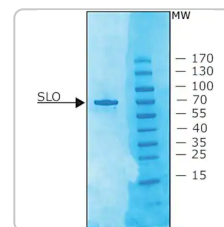
Sigma-Aldrich

SAE0091

Lysostaphin from *Staphylococcus staphylolyticus*

free of DNA contaminants, suitable for Microbiome research, lyophilized powder, ≥500 units/mg protein

[Consulter le prix et la disponibilité](#)



Sigma-Aldrich

SAE0089

Streptolysin O from *Streptococcus pyogenes*

≥1,000,000 units/mg protein, recombinant, lyophilized powder, expressed in *E. coli*

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Évaluations

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