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MAC4L ▶ **Sigma-Aldrich**

MetaPolyzyme

★★★★★ (0)

lyophilized powder

Synonyme(s):

Multilytic Enzyme Mix

Documents[FDS](#)[COO/COA](#)[Fiche des caractéristiques](#)

[Plus de documents](#) »

Référence	Conditionnement	Disponibilité	Prix	Quantité
MAC4L-5MG	5 MG	✓ Only 1 left in stock (more on the way)	Détails... 303,00 €	- + i

[Demander une commande en gros](#)[Ajouter au panier](#)

PRODUITS RECOMMANDÉS

 Sigma-Aldrich Sigma-Aldrich

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PROPRIÉTÉS

Forme	lyophilized powder
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Niveau de qualité	200
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Expédié(e)s dans	wet ice
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Temp. de stockage	-20°C
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Catégories apparentées

[Microbiome](#)[Whole Cell Lysis Reagents & Enhancers](#)

DESCRIPTION

Description générale

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of novel microbial species. Applications of metagenomic studies include public health data analysis, discovery of novel proteins, enzymes and natural products, environmental studies, and agricultural investigations.

Application

MetaPolyzyme is a mixture of 6 enzymes that is intended for isolation of total DNA for metagenomics studies. Adapted from an initial formulation devised by S. Tighe,² MetaPolyzyme was evaluated and developed in consultation and collaboration with the Association of Biomolecular Resource Facilities (ABRF) Metagenomics and Microbiome Research Group (MMRG). Test data on the use of MetaPolyzyme is accessible at the [2017 ABRF MGRG Poster](#).

Actions biochimiques/physiologiques

Microbes can be difficult to disrupt because the cell walls may form capsules or resistant spores. DNA can be extracted by using lysing enzymes (such as lyticase or chitinase) to induce partial spheroplast formation. Spheroplasts are subsequently lysed to release DNA. MetaPolyzyme is intended for use in metagenomic studies, such as study of microbes and microbiomes of extreme and unique environments. MetaPolyzyme is intended for digestion of microbes for evaluation by whole genome shotgun sequencing for metagenomics and metatranscriptomic approaches.

Composants

The enzymes in MetaPolyzyme are:

- Achromopeptidase
- Chitinase
- Lyticase
- Lysostaphin
- Lysozyme

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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

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)

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Certificat d'origine

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Numéro de lot

e.g. 023J5431

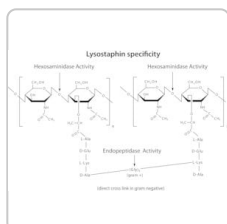
Comment saisir un numéro de lot (COO)

Rechercher

Fiche D'informations Produit

Product Information Sheet - MAC4L FDS

LES CLIENTS ONT ÉGALEMENT CONSULTÉ



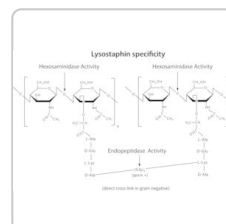
Sigma-Aldrich

L4402

Lysostaphin from *Staphylococcus staphylolyticus*

BioUltra, ≥97% (SDS-PAGE), Protein 40-60 % by biuret, ≥2,000 units/mg protein

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Sigma-Aldrich

SRE0053

Lysostaphin from *Staphylococcus staphylolyticus*

Suitable for manufacturing of diagnostic kits and reagents., lyophilized powder

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Microbiomic Analysis on Low Abundant Respiratory Biomass Samples; Improved Recovery of Microbial DNA From Bronchoalveolar Lavage Fluid.

Saladie M et al.

Frontiers in Microbiology, 11, 572504-572504 (2020)

Erratum to: The Metagenomics and Metadesign of the Subways and Urban Biomes (MetaSUB) International Consortium Inaugural Meeting Report.

Microbiome, 4(1), 45-45 (2016-08-20)

Metagenome sequencing-based strain-level and functional characterization of supragingival microbiome associated with dental caries in children.

Nezar Noor Al-Hebshi et al.

Journal of oral microbiology, 11(1), 1557986-1557986 (2019-01-24)

Studies of the microbiome associated with dental caries have largely relied on 16S rRNA sequence analysis, which is associated with PCR biases, low taxonomic resolution, and inability to accurately study functions. Here, we employed whole metagenome shotgun sequencing, coupled with

Cartography of Opportunistic Pathogens and Antibiotic Resistance Genes in a Tertiary Hospital Environment.

Chng KR et al.

Nature Medicine, 26(6), 941-951 (2020)

Genomic Methods and Microbiological Technologies for Profiling Novel and Extreme Environments for the Extreme Microbiome Project (XMP).

Scott Tighe et al.

Journal of biomolecular techniques : JBT, 28(1), 31-39 (2017-03-25)

The Extreme Microbiome Project (XMP) is a project launched by the Association of Biomolecular Resource Facilities Metagenomics Research Group (ABRF MGRG) that focuses on whole genome shotgun sequencing of extreme and unique environments using a wide variety of biomolecular techniques.

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PROTOCOLES ET ARTICLES SCIENTIFIQUES

Articles

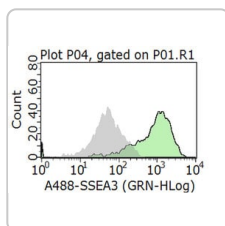
Lysing Enzymes

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

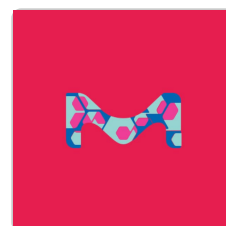


Sigma-Aldrich

MAB4303-I

Anti-Stage-Specific Embryonic Antigen-3
Antibody, clone MC-631
clone MC-631, from rat

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Sigma-Aldrich

M9956

M9 Minimal Salts, 5X
Liquid microbial growth medium

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Questions

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