Saisir le nom du produit, le numéro de lot, etc.

Toutes les photos (1)

Documents

FDS

COO/COA

R90 Sigma-Aldrich

Rhamnolipids, 90%

(0)

Synonyme(s):
Rhamnolipids

NACRES: NA.22

Référence	Conditionnement	Disponibilité	Prix	Quantité
R90-10G	10 G	Only 3 left in stock (more on the way) Détails...	98,20 €	− +
R90-50G	50 G	Only 1 left in stock (more on the way) Détails...	247,00 €	− +
R90-100G	100 G	Date d'expédition estimée le 14 novembre 2022	330,00 €	− +

Demander une commande en gros

Ajouter au panier

PRODUITS RECOMMANDÉS

Sigma-Aldrich

R95DD

Rhamnolipids, 95% (Di-Rhamnolipid dominant)

Consulter le prix et la disponibilité

Sigma-Aldrich

R95MD

Rhamnolipids, 95% (Mono-Rhamnolipid dominant)

Consulter le prix et la disponibilité

PROPRIÉTÉS

Source biologique	*Pseudomonas aeruginosa*
Niveau de qualité	100
Forme	solid/granular
Caractéristiques du produit alternatif plus écologique	Design for Degradation: Greener alternative product characteristics Learn more about the **Principles of Green Chemistry**.
Autre catégorie plus écologique	**Aligned**
Expédié(e)(s) dans	ambient
Temp. de stockage	room temp

Vous recherchez des produits similaires ? Visit **Guide de comparaison des produits**

Catégories apparentées

Greener Alternative Products

Lipids for Therapeutics and Research

DESCRIPTION

Description générale

Rhamnolipid biosurfactants are glycolipids containing L-rhamnose and ß-hydroxyl fatty acids, with amphiphilic properties (both hydrophilic and hydrophobic). This rhamnolipid product has been purified from Pseudomonas aeruginosa and contains a mixture of rhamnolipids with fatty acids of varying tail length. They are highly biodegradable, non-toxic, and renewable. Functional roles include bioactive, surfactant and emulsifier. Rhamnolipids provide good detergency/foaming/wetting, stable microemulsion formation, and solubility under high alkalinity. They are mild with skin-friendly attributes. Surfactant and emulsion properties of rhamnolipids include reducing the surface tension of water to 25 to 40 mN/m, having a CMC of 5-380 mg/L, and decreasing the interfacial tension of oil and water to <1 dyne/cm. Rhamnolipid biosurfactants are superior to synthetic surfactants for several reasons: their CMC is 10-100 times lower than that of traditional chemical surfactants (meaning much less material is required to achieve reductions in surface tension/interfacial tension); they are easily biodegradable with very low toxicity (having higher EC50 values); they are not as affected by temperature, pH and salinity; and they are sustainably produced.

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 hydrocarbon degradation. For more information see the paper **Environmental applications of biosurfacants: recent advances**, and the many other articles available at: **AGAE Technologies**

Application

Rhamnolipids can be used in pharmaceuticals, cosmeceuticals, cosmetics, personal products, environmental bioremediation, the petroleum industry, household cleaners, food and beverage processing, agriculture and horticulture, therapeutics, nanotechnology, the polymer industry, cryo-protectants, the mining industry, biofuels, ethanol production, microbial fuel cells, protein research, and neural stem cell studies.

Informations légales

Product of AGAE Technologies

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).

Numéro de lot

e.g. 023J5431

Comment saisir un numéro de lot (COO)

Rechercher

LES CLIENTS ONT ÉGALEMENT CONSULTÉ

Sigma-Aldrich

V9389

Violacein from *Janthinobacterium lividum*

>98% (violacein (minimum 85% violacein) and deoxyviolacein, HPLC)

Consulter le prix et la disponibilité

Sigma-Aldrich

L9143

Lipopolysaccharides from *Pseudomonas aeruginosa* 10

purified by phenol extraction

Consulter le prix et la disponibilité

ARTICLES REVUS PAR DES PAIRS

Induction of diploid gynogenesis in an evolutionary model organism, the three-spined stickleback (Gasterosteus aculeatus).

Irene E Samonte-Padilla et al.
BMC developmental biology, 11, 55-55 (2011-09-14)

Rapid advances in genomics have provided nearly complete genome sequences for many different species. However, no matter how the sequencing technology has improved, natural genetic polymorphism complicates the production of high quality reference genomes. To address this problem, researchers have

Evaluating rhamnolipid-enhanced washing as a first step in remediation of drill cuttings and petroleum-contaminated soils.

Ibukun O Olasanmi et al.
Journal of advanced research, 21, 79-90 (2020-02-20)

Environmental pollution by petroleum hydrocarbons (PHCs) is a severe and widespread problem impacting human health and the environment. To combat this issue, innovative and sustainable treatment methods are required. This research study investigated rhamnolipid-enhanced washing of drill cuttings and petroleum-contaminated

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Surface sensing triggers a broad-spectrum antimicrobial response in Pseudomonas aeruginosa.

Bartosz Gerard Gdaniec et al.
Environmental microbiology, 22(8), 3572-3587 (2020-06-24)

Interspecies bacterial competition may occur via cell-associated or secreted determinants and is key to successful niche colonization. We previously evolved Pseudomonas aeruginosa in the presence of Staphylococcus aureus and identified mutations in the Wsp surface-sensing signalling system. Surprisingly, a ΔwspF

Metabolism of isoprenaline in the intestine.

C F George et al.
The Journal of pharmacy and pharmacology, 26(4), 265-267 (1974-04-01)

Biosurfactants: a sustainable replacement for chemical surfactants?

Roger Marchant et al.
Biotechnology letters, 34(9), 1597-1605 (2012-05-24)

Glycolipid biosurfactants produced by bacteria and yeasts provide significant opportunities to replace chemical surfactants with sustainable biologically produced alternatives in bulk commercial products such as laundry detergents and surface cleaners. Sophorolipids are already available in sufficient yield to make their

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Afficher tous les articles scientifiques apparentés

PRODUITS CONSULTÉS RÉCEMMENT

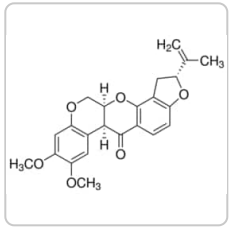
Sigma-Aldrich

R8781

Rapamycin

Ready Made Solution, 2.5 mg/mL in DMSO (2.74 mM), from *Streptomyces hygroscopicus*

Consulter le prix et la disponibilité



Sigma-Aldrich

R8875

Rotenone

≥95%

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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