

Toutes les
photos (1)

Documents



FDS



COO/COA



Fiche des
caractéristiques

S1797 ▶ Sigma-Aldrich.

SOC Medium

★★★★★ (0)

For use in transformation

Synonyme(s):

Super Optimal broth

NACRES:

NA.85

Référence	Conditionnement	Disponibilité	Prix	Quantité
S1797-10X5ML	10 X 5 ML	✓ Date d'expédition estimée le 24 octobre 2022	212,00 €	- + 
S1797-100ML	100 ML	✓ Only 3 left in stock (more on the way) Détails...	389,00 €	- + 

[Demander une commande en gros](#)

Ajouter au panier

PRODUITS RECOMMANDÉS



Millipore
85469
SOC Broth
suitable for microbiology

[Consulter le prix et la disponibilité](#)



Sigma-Aldrich
CMR0002
Recovery Medium for Cloning
for use with competent cells

[Consulter le prix et la disponibilité](#)



PROPRIÉTÉS

Qualité for molecular biology

Niveau de qualité 500

Stérilité 0.2 µm filtered

Forme liquid

Composition
Dextrose, 3.603 g/L
KCl, 0.186 g/L
MgSO₄, 4.8 g/L
Tryptone, 20 g/L
Yeast extract, 5 g/L

application(s) agriculture
food and beverages

Temp. de stockage 2-8°C

Adéquationnonselective for *Escherichia coli*

nonselective for coliforms

Catégories apparentées**Microbial Culture Media**

DESCRIPTION**Description générale**

SOC is a microbial growth medium used for the transformation of competent cells (*E. coli*). This nutrient-rich microbial broth contains peptides, amino acids, water-soluble vitamins, and glucose in a low-salt formulation.

Application

SOC Medium is a rich media used primarily in the recovery step of *Escherichia coli* competent cell transformations. Use of SOC maximizes the transformation efficiency of competent cells.

Caractéristiques et avantages

SOC liquid provides:

- Filter-sterilized, ready-to-use format
- Convenient package sizes
- Standard formulation

Notes préparatoires

1. Suspend 31.3 g in 1 L of distilled water.
2. Autoclave for 15 minutes at 121°C.

PRODUITS APPARENTÉS

Produit Apparenté

L7658

LB Broth (Lennox), EZMix™ powder microbial growth medium

[View Pricing](#)

L3022

LB Broth (Lennox), Highly-referenced microbial growth powder medium, low salt, suitable for salt-sensitive *E.coli* culture.

[View Pricing](#)

H8032

Hanahan's Broth (SOB Medium), powder microbial growth medium

[View Pricing](#)

T5574

Terrific Broth, Liquid microbial growth medium

[View Pricing](#)

CMC0001

SIG10 Chemically Competent Cells, for protein expression and DNA plasmid production

[View Pricing](#)**CMC0003**

SIG10 HIGH Electrocompetent Cells, for protein expression and DNA plasmid production

[View Pricing](#)**CMC0007**

SIG10 5a Chemically Competent Cells, for DNA plasmid production

[View Pricing](#)**CMC0014**

BL21(DE3) Chemically Competent Cells, for protein expression

[View Pricing](#)**CMC0017**

OverExpress™ C41(DE3) Chemically Competent Cells, for the highest protein expression

[View Pricing](#)

INFORMATIONS SUR LA SÉCURITÉ

10/9/22, 2:06 PM

SOC Medium For use in transformation | Sigma-Aldrich

Code de la classe de stockage	WGK	Flash Point(F)	Point d'éclair C
12 - Non Combustible Liquids	WGK 2	Not applicable	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).

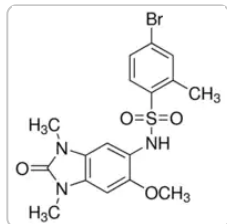
Numéro de lot

e.g. 023J5431

Comment saisir un numéro de lot (COO)

Rechercher

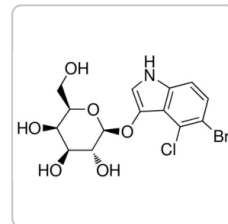
LES CLIENTS ONT ÉGALEMENT CONSULTÉ



Sigma-Aldrich

SML1184**OF-1**

≥98% (HPLC)

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Sigma-Aldrich

B9146**5-Bromo-4-chloro-3-indolyl β-D-galactopyranoside**

≥98%

[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.

Which bacterial culture medium is the best choice for my application?

Each of the broths will likely grow E. coli very well, but there are still general guidelines for choosing a broth when you are working without a protocol. Generally: LB - Miller and LB - Lennox are used for E. coli growth and maintenance, DNA plasmid production and protein production. The Lennox formulation has a lower salt content required for some salt-sensitive selection antibiotics. LB - Luria low salt is used for special applications

where the E. coli growth or other constraints require the lowest possible salt content. Terrific Broth is used for higher yield protein production and high yield DNA plasmid production, because of the faster growth of the E. coli in this medium. SOB is used for protein production, DNA plasmid production and the generation of high-efficiency competent cells. SOC is used for initial growth of competent cells and the transformation procedure.

Why is SOC Medium (S1797) used to recover bacterial cells before transformation?

SOC is a rich bacterial broth that also contains glucose, which aids in the recovery process and prepares the cells for efficient transformation. The use of other media, such as LB - Lennox may also be acceptable, but the recovery and transformation may not be as efficient.

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

Ask a Scientist [here](#).

ARTICLES REVUS PAR DES PAIRS

Sambrook, J., et al.

Molecular Cloning: A Laboratory Manual, 1-1 (1989)

beta-Lactam resistance in salmonella strains isolated from retail meats in the United States by the National Antimicrobial Resistance Monitoring System between 2002 and 2006.

S Zhao et al.

Applied and environmental microbiology, 75(24), 7624-7630 (2009-10-27)

Ampicillin-resistant (Amp(r)) Salmonella enterica isolates (n = 344) representing 32 serotypes isolated from retail meats from 2002 to 2006 were tested for susceptibility to 21 other antimicrobial agents and screened for the presence of five beta-lactamase gene families (bla(CMY), bla(TEM)

Identification of Pathogenicity-Associated Loci in Klebsiella pneumoniae from Hospitalized Patients.

Rebekah M Martin et al.

mSystems, 3(3) (2018-07-03)

Despite insights gained through experimental models, the set of bacterial genes important for human infection is unclear for many of our most threatening pathogens. Klebsiella pneumoniae is a leading cause of health care-associated infections (HAIs) and commonly colonizes hospitalized patients

Soluble Fc fusion proteins for biomedical research.

Meg L Flanagan et al.

Methods in molecular biology (Clifton, N.J.), 378, 33-52 (2008-07-09)

As a source of recombinant antigen, soluble constant fragment (Fc) fusion proteins have become valuable reagents for immunotherapy and laboratory investigations. Additional applications for these reagents include flow cytometry, immunohistochemistry, and in vitro activity assays. To aid investigators in the

Rapid generation of fully human monoclonal antibodies specific to a vaccinating antigen.

Kenneth Smith et al.

Nature protocols, 4(3), 372-384 (2009-02-28)

We describe herein a protocol for the production of antigen-specific human monoclonal antibodies (hmAbs). Antibody-secreting cells (ASCs) are isolated from whole blood collected 7 d after vaccination and sorted by flow cytometry into single cell plates. The antibody genes of

Afficher tous les articles scientifiques apparentés

PROTOCOLES ET ARTICLES SCIENTIFIQUES

Articles

Bacterial Transformation Protocols

General protocols for growth of competent cells and their transformation (uptake of DNA).

Protocoles

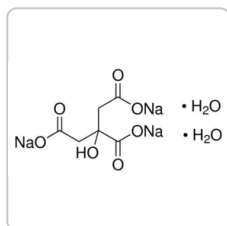
Competent Cell Protocols

Technical Article on competent cells. Transformation is a process by which some bacteria take up foreign genetic material (naked DNA) from the environment.

Microbial Growth Protocols

General protocols for growth of competent cells in microbial medium.

PRODUITS CONSULTÉS RÉCEMMENT

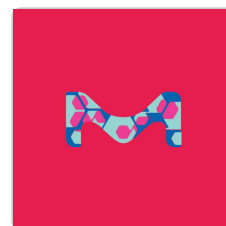


Sigma-Aldrich

S1804

Trisodium citrate dihydrate
meets USP testing specifications

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Sigma-Aldrich

S1764

Complement sera human
lyophilized powder

[Consulter le prix et la disponibilité](#)

Évaluations



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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..

[Contacter notre Service technique](#)

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