

SOC Medium

For the cultivation of recombinant strains of *E.coli*

Product Description

Catalog #: AN146A, 500 g

Name: **SOC Medium**

Ingredients (g/l)

Glucose	3,6	Magnesium chloride anhydrous	0,96
Potassium chloride	0,186	Sodium chloride	0,5
Tryptone	20	Yeast extract	5

Storage: Once opened keep powdered medium closed to avoid hydration. 2-25°C

Introduction

SOC Medium is a nutrient rich medium for the preparation and transformation of competent cells. The transformation requires perforation of the bacteria to allow the introduction of alien DNA inside the cell. In order to survive this process the competent cells need an isotonic rich medium.

Peptone provides nitrogen, vitamins, minerals and amino acids essential for growth. Yeast extract is source of vitamins, particularly the B-group. Sodium chloride and Potassium chloride supplies essential electrolytes for transport and osmotic balance. Magnesium sulfate is a source of magnesium ions.

Glucose is used as a carbon and energy source that *E. coli* uses to repair the perforation as well as for replication.

Preparation

Suspend 30,2 grams of the medium in one liter of distilled water. Mix well and dissolve by heating with frequent agitation. Boil for one minute until complete dissolution. Dispense into appropriate containers and sterilize in autoclave at 121 °C for 15 minutes.

Instructions for use

Inoculate and incubate at 35±2 °C for 18-24 hours.

Quality control

<u>Solubility</u>	<u>Apparence</u>	<u>Color of the dehydrated medium</u>	<u>Color of the prepared medium</u>	<u>Final pH (25°C)</u>
w/o rests	Fine powder	Beige	Amber, slightly opalescent	7,0 ± 0,2

Microbiological Test

Incubation conditions: (35±2 °C / 18-24 h)

<u>Microrganisms</u>	<u>Specification</u>
Escherichia coli ATCC 33694	Good growth

Ordering information

For any information, please ask at uptima@interchim.com or at Uptima / Interchim; Hotline : +33(0)4 70 03 73 06

Related / associated products and documents

- [Cell Culture Media & Components](#) ^[PL] e.g. Agar #291901, Terrific Broth #82111A,...

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