



PRODUCT INFORMATION

SOC Broth (SD7009)

Background:

SOC Broth is a special medium for incubating competent cells immediately after transformation to allow expression of transferred resistance genes before exposing cells to selective conditions.

Formula: (Per Liter)

SOC Broth

Tryptone = 20.0g

Yeast Extract = 5.0g

Sodium Chloride = 0.5g

Magnesium Sulfate.7H₂O = 5g

D-Glucose = 3.6 g

Final pH 7.0 ± 0.2 at 25°C

Storage:

Dehydrated media should be stored in a dry area at 18-26°C.

Prepared media should be stored at 2-8°C.

Method of Preparation:

1. Suspend 34 grams of SOC Broth powder in 1 L of purified water.
2. Allow the powder to dissolve. Heat and stir gently if required.
3. Autoclave at 121°C for 15 minutes.
4. Allow the solution to cool to 50°C or below before adding antibiotics or additional nutritional supplements.

Quality Control:

All powders will have a light beige, free-flowing homogenous appearance.

All solutions will have a light medium amber, clear appearance.

References:

1. Ausubel, F.M., R. Brent, R.E. Kingston, D.D. Moore, J.G. Seidman, J.A. Smith, K. Struhl (ed.). 1994. Current Protocols in Molecular Biology. Current Protocols. New York, N.Y.

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