



## Product Information Sheet

### H289 Hanahan's Broth (SOB Medium)

#### Properties

Form:	Powder
Appearance:	Off-White to Light Tan
Application:	Molecular Biology
Solubility:	Water
Typical Working Concentration:	28.09 g/L
Storage Temp:	2-6°C
Storage Temp of Stock Solution:	Storage of stock solutions is not recommended as precipitates may form.
Other Notes:	Approximate pH of 7.0

#### Formula (mg/L)

Magnesium Sulfate, Anhydrous	2400	Tryptone	20,000
Potassium Chloride	186	Yeast Extract	5000
Sodium Chloride	500		

#### Application Notes

Also known as SOB Medium. It was developed by Hanahan (1983) for the cultivation of competent *E. coli* cells prior to transformation. When 20 mM (0.36%) D-glucose is added to this nutritionally rich medium it is used in the final stage of transformation; this allows the *E. coli* cells to mend the perforations and replicate.

Adding D-glucose to SOB Medium produces SOC Medium (Prod. No. S657).

#### References

Hanahan, D. (1983) [Studies on transformation of \*Escherichia coli\* with plasmids](#). *J. Mol. Biol.* 155, 557–508.