Stock Solution

TD-S Revision 2.0

Creation Date: 6/17/2015
Revision Date: 10/17/2019

2X BES-Buffered Saline Stock Solution, 0.05M pH 6.95 - 1 L

Instructions

1. Add 10.66 g of BES (BES, GoldBio Catalog # B-780 [CAS 10191-18-1, mw. = 213.25]) to 750 mL of dH_2O.

2. Add 16.36 g NaCl and 0.21 g Na_2HPO_4. The solution should be at pH ~5.75 once all solid reagents are dissolved.

3. Adjust to desired pH using 1M NaOH.

4. Fill to final volume of 1 L with dH_2O.

5. Filter sterilize.

6. Store as aliquots at 4°C.

Note: BES-buffered saline solution is used in the calcium phosphate-mediated transformation of mammalian cells with plasmid DNA. The pH is critical for efficient stable transformation.

References

Schenborn, Elaine T., and Virginia Goiffon. "Calcium phosphate transfection of mammalian cultured cells." *Transcription factor protocols*. Humana Press, 2000. 135-145.

Chen, Claudia, and Hiroto Okayama. "High-efficiency transformation of mammalian cells by plasmid DNA." *Molecular and cellular biology* 7.8 (1987): 2745-2752.

Gold Biotechnology
St. Louis, MO
Ph: (800) 248-7609
Web: www.goldbio.com
Email: contactgoldbio86@goldbio.com