10X MOPS Buffer for EZ Rich Defined *E. coli* Growth Medium *(Cat. No. D-0508-10)*

FOR RESEARCH USE ONLY

BACKGROUND

MOPS- 3-(N-morpholino) propanesulfonic acid. MOPS (pK_a = 7.20) is an excellent buffer for many biological systems at near-neutral pH, MOPS Minimal is designed for culturing *E. coli* and works very well with our MDS™ 42 strains.

REAGENTS	VOLUME
10X MOPS	100ml
0.132M K_2PO_4	10ml

MEDIA PREPARATION

Add reagents plus carbon source to approximately 800 ml pure water; stir to completely mix. Adjust volume to 1L. If measured pH is not 7.2, adjust by dropwise addition of 16M HCl. Filter sterilize using 0.2µm vacuum filter into sterile container.

PLATE PREPARATION

Add 13g/L Agar to approximately 880ml water (this volume will vary depending on the volume of carbon source(s) added), autoclave for 35 min at 120ºC. While agar solution is autoclaving, combine the MOPS reagents. If measured pH is not 7.2, adjust by dropwise addition of 16M HCl. Filter sterilize using a 0.2µm vacuum filter. Once the agar solution has cooled to 50ºC add the MOPS solution, mix aseptically, and pour plates.

STORAGE CONDITIONS

Store 10X MOPS reagent at -20 ºC.
Store 0.132 K_2PO_4 at room temperature.

Scarab Genomics – 1202 Ann Street – Madison, WI 53713 – Tel: 888 513-7075 – Fax: 608 257-2043 – www.scarabgenomics.com