

20X Saline-Sodium Phosphate-EDTA (SSPE) Buffer Solution

DNase, RNase and protease-none detected

Catalog Number **ML 013-01**

Storage Temperature 15~30°C

Product Description

20X Saline-sodium phosphate-EDTA (SSPE) buffer attaches nucleic acid onto a fixed body (ex. Membrane), to facilitate experiments that identify the presence and activation of nucleic acids, which include: (1) Southern hybridization, (2) Northern hybridization, (3) Transfer and fixation of denatured RNA to uncharged nylon membranes at neutral pH, (4) Dot and slot hybridization of purified RNA, and (5) Blocking agents for southern and northern hybridization. 20X SSPE buffer contains high concentrations of salt to effectively support nucleic acid anchorage onto membranes. While SSC buffer and SSPE buffer are similar in their usages, SSPE is appropriate for solutions containing formamide due to its highly flexible buffering capacity. Southern hybridization utilizes this DNA-DNA bonding, while Northern hybridization exploits RNA-DNA or RNA-RNA bond.

ML 013-01 contains sodium phosphate, pH 7.4 0.20 M, NaCl 3.00 M, EDTA 0.02 M.

Storage/Stability

The concentrated TBE buffers should be stored at 15~30°C. Deterioration of the solution may be recognized by (1) precipitate or particulate matter throughout the solution, (2) cloudy appearance, (3) color change, and/or (4) pH change. Product label bears expiration date.

Biological Performance Characteristics

The biological characteristics of the concentrated 20X SSPE buffers are tested using polyacrylamide gel electrophoresis of DNA in 1X working solution, and compared with the resolution of the parallel DNA bands in standardized control solution.

Precautions

For *In Vitro* Use Only

M	
Components	ML 013-01
Sodium Phosphate, pH 7.4	0.20
NaCl	3.00
EDTA	0.02

Product Profile	
Appearance	Clear colorless solution
DNase, RNase, and Proteinase	None Detected
Suitability	Suitable for use in agarose gel electrophoresis
Sterility	Sterilized by autoclaving (121°C, 20 min) and 0.2 μm filtration system. Sterility tests are performed in accordance with protocols described in USP.