



Solutions and reagents for MARIA

1. 1x PBS, 0.02% Tween20, 1% BSA at pH 7.4:

- 50ml 20x PBS
- BSA 10g
- Tween-20 0.2ml

Dissolve in 1 liter deionized water and check the pH (7.3 – 7.5).

If pH is acceptable, pass buffer through 0.22µm membrane filter into a 1L container.

2. 20x Phosphate buffered saline, pH 7.4 (20x PBS):

- NaCl 640g
- KH₂PO₄ 16g
- Na₂HPO₄ 92g
- KCl 16g

Dissolve in deionized water to a final volume of 4 liters.

Dilute 5ml 20x PBS in 95ml deionized water and stir for 5 minutes. The final pH of 1x PBS should be between 7.2 and 7.5.

3. 20L Luminex xMAP Sheath Fluid (Luminex Catalog# 40-50000 or BioRad Catalog# 171000055)

*To prevent buffers from becoming turbid, BSA from Roche Diagnostics (Catalog # 0311696400) is recommended for ELISA and MARIA buffer preparations. Buffers that become cloudy should be sterile-filtered or discarded.