

Acetate, pH 4.5

1 M Acetic acid and 1 M Sodium acetate solutions were titrated together to make a pH 4.5 Acetate stock solution. A 10× dilution of this stock solution is used in the final formulations.

Cacodylate, pH 6.5

Sodium cacodylate was titrated to pH 6.5 with 37% concentrated Hydrochloric acid, and the volume was adjusted to 1 M Sodium cacodylate. A 10× dilution of this stock solution is used in the final formulations.

CAPS, pH 10.5

CAPS was titrated to pH 10.5 with 50% (w/v) Sodium hydroxide, and the volume was adjusted to 1 M CAPS. A × dilution of this solution is used in the final formulations.

CHES, pH 9.5

CHES was titrated to pH 9.5 with 50% Sodium hydroxide, and the volume was adjusted to 1 M CHES. A 10× dilution of this stock solution is used in the final formulations.

Citrate, pH 5.5

0.5 M Citric acid and 0.5 M Sodium citrate solutions were titrated together to make a pH 5.5 Citrate stock solution. A 5× dilution of this stock solution is used in the final formulations.

HEPES, pH 7.5

HEPES was titrated to pH 7.5 with 50% Sodium hydroxide, and the volume was adjusted to 1 M HEPES. A 10× dilution of this stock solution is used in the final formulations.

Imidazole, pH 8.0

Imidazole was titrated to pH 8.0 with 37% concentrated Hydrochloric acid, and the volume was adjusted to 1 M Imidazole. A 10× dilution of this stock solution is used in the final formulations.

MES, pH 6.0

MES was titrated to pH 6.0 with 50% Sodium hydroxide, and the volume was adjusted to 1 M MES. A 10× dilution of this stock solution is used in the final formulations.

Sodium phosphate/Potassium phosphate, pH 6.2

0.5 M Na₂HPO₄ and 0.5 M KH₂PO₄ solutions were titrated together to make a pH 6.2 Sodium/Potassium phosphate stock solution. A 5× dilution of this stock solution is used in the final formulations.

Phosphate-citrate, pH 4.2

0.5 M Na₂HPO₄ and 0.5 M citric acid solutions were titrated together to make a pH 4.2 Phosphate-citrate stock solution. A 5× dilution of this stock solution is used in the final formulations.

Tris, pH 7.0, 8.5

Tris was titrated to pH 7.0 or 8.5 with 37% concentrated Hydrochloric acid, and the volume was adjusted to 1 M Tris. 10× dilutions of these stock solutions are used in the final formulations.

Abbreviations:

CAPS – 3-(cyclohexylamino)-1-propanesulfonic acid
CHES – 2-(N-cyclohexylamino)ethanesulfonic acid
HEPES – N-(2-hydroxyethyl)piperazine-N'-(2-ethanesulfonic acid)
MES – 2-(N-morpholino)ethanesulfonic acid
MME – monomethyl ether
OAc – acetate
PEG – polyethylene glycol
Tris – tris(hydroxymethyl)aminomethane