

Phage Buffer

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Abstract

Can be used for diluting or resuspending phage preparations.

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Guidelines

Materials needed:

NaCl (MW=58.44)

Tris-Cl (MW=157.64)

MgSO₄-7H₂O (MW=246.47)

Milli Q water

This buffer can be prepared from powdered chemicals or from pre-made liquid stocks. It is easiest to prepare from liquid stocks.

At the least, the final buffer should be 0.2um filtered, however, it is best if it is 0.02um filtered (using Anotop syringe filters) just prior to use.

Protocol

Step 1.

Prepare 5M NaCl by dissolving 29.22g NaCl in 100ml Milli Q water and 0.2um filter solution into sterile container.

Step 2.

Prepare 1M Tris-Cl, pH7.4, by dissolving 7.882g Tris-HCl in 90ml Milli Q water, adjusting pH to 7.4 with 1N NaOH, bringing final volume to 50ml and filter sterilizing through a 0.2um filter into a sterile container.

Step 3.

Prepare 1M MgSO₄ by dissolving 12.3g MgSO₄-7H₂O in 50ml Milli Q water and filter sterilize through 0.2um filter into sterile container

Step 4.

Mix together 3.0ml 5M NaCl, 4.0ml 1M Tris-Cl, pH 7.4, and 1.0ml 1M MgSO₄ in 92ml sterile Milli Q water in a sterile container.

Step 5.

Filter solution through a 0.02um Anotop syringe filter into a sterile container.

Step 6.

Final phage buffer will be 150mM NaCl, 40mM Tris-Cl, pH 7.4, 10mM MgSO₄.