

Product Information

sigma-aldrich.com

3050 Spruce Street, Saint Louis, MO 63103 USA
Tel: (800) 521-8956 (314) 771-5765 Fax: (800) 325-5052 (314) 771-5757
email: techservice@sial.com sigma-aldrich.com

Phenol solution equilibrated with 10 mM Tris HCl, pH 8.0, with 1 mM EDTA for molecular biology

Catalog Number **P4557**
Storage Temperature 2–8 °C

Synonym: Equilibrated Phenol

Product Description

The product is a clear liquid capped with a layer of Tris buffer.

pH of phenolic phase: 6.7 ± 0.2
pH of phenolic phase: 7.9 ± 0.2 (after the addition of
Equilibration Buffer)

This preparation may be use in the extraction of nucleic acids.

Components

The product is supplied with Equilibration Buffer (Catalog Number B5658).

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Preparation Instructions

For many applications, this product can be used without the addition of the Equilibration Buffer. For applications requiring a higher pH, such as the isolation of large intact genomic DNA, addition of the Equilibration Buffer (Catalog Number B5658) is recommended. Add the entire contents of the small bottle of Equilibration Buffer to the large bottle of Phenol solution. Mix gently and allow the phases to separate before use, 2–4 hours. This will adjust the pH of the Phenol solution from $\text{pH } 6.7 \pm 0.2$ to 7.9 ± 0.2 .

Storage/Stability

Equilibrated Phenol is packaged under an inert gas and is for usable if the phenolic phase is colorless. **Do not use if the phenolic phase has turned to a yellow or brown color.** After the addition of Equilibration Buffer, the product may be stored for 6 months at 2–8 °C. For extended storage of the product after opening, either with or without the addition of Equilibration Buffer, –20 °C with protection from light is recommended.

References

1. Sambrook, J., and Russell, D.W., in Molecular Cloning: A Laboratory Manual, Third edition, Cold Spring Harbor Laboratory Press, (Cold Spring Harbor, New York: 2001), pp. 6.4-6.11

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