

UltraPure™ Phenol:Chloroform:Isoamyl Alcohol (25:24:1)

Cat. No: 15593-031

Size: 100 ml

Cat. No: 15593-049

Size: 400 ml

Store at 2°C to 8°C.

Warning: Phenol is toxic if it comes into contact with skin, or if swallowed. Causes burns. Harmful if inhaled. After contact with skin, wash immediately with plenty of detergent and water. Immediately remove all contaminated clothing. If you feel unwell, seek medical advice (show label to medical personnel if possible).

Contents

Phenol, chloroform, and isoamyl alcohol (25:24:1, v/v).

Description

UltraPure™ Phenol:Chloroform:Isoamyl Alcohol (25:24:1, v/v) is prepared from highly pure chloroform, isoamyl alcohol, and phenol saturated with 0.1 M Tris-HCl buffer (pH 8). The final product has a pH of 8.05–8.35 at 25°C. It is free of interfering levels of heavy metals and antioxidants, including hypophosphorous acid. This solution is ready to use, suitable for phenol extraction of nucleic acid solutions. It is packaged in amber bottles under argon to enhance chemical stability. At 15–30°C, the product will appear as one clear, homogeneous phase. At 2°C to 8°C the product may appear as a clear, homogeneous phenol phase (the lower phase), overlaid by a small aqueous phase.

Instructions for Use

Equilibrate to 15°C to 30°C, then swirl thoroughly to form a single, clear, homogeneous phase. Unscrew cap and remove desired amount of material. Alternatively, use the lower, clear, organic layer at 2°C to 8°C. To retain the protective argon layer in the bottle, remove partial solution volumes by pipetting.

Storage Considerations

If stored improperly, phenol can undergo oxidation. Oxidized phenol typically appears yellow or red in color when saturated with water or buffer. To extend product stability, it is recommended that the gas volume above the solution be flushed with argon or nitrogen following each use.

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