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Cesium chloride

Product Number **C4036** Store at Room Temperature

Product Description

Molecular Formula: CsCl Molecular Weight: 168.4 CAS Number: 7647-17-8

This product is designated as Molecular Biology grade and is suitable for molecular biology applications. It has been analyzed for the presence of nucleases and proteases.

Cesium chloride (CsCl) is commonly used in the separation of DNA and RNA. Procedures have been reported for the purification of closed circular DNA by equilibrium centrifugation in both continuous and discontinuous CsCl-ethidium bromide gradients. Subsequently, the CsCl can be removed from the DNA preparation by either dialysis or precipitation.¹

A protocol for the purification of bacteriophage λ -DNA using CsCl solutions has been published. A procedure for the isolation of RNA using a guanidinium isothiocyanate/CsCl technique has been published. A procedure for the isolation of rDNA from nuclear DNA has been reported.

Precautions and Disclaimer

For Laboratory Use Only. Not for drug, household or other uses.

Preparation Instructions

Cesium chloride is soluble in water (500 mg/ml).

References

- Molecular Cloning: A Laboratory Manual, 3rd ed., Sambrook, J. and Russell, D. W., CSHL Press (Cold Spring Harbor, NY: 2001), pp. 1.65-1.77, 2.56-2.58.
- 2. Turpen, T. H., and Griffith, O. M., Rapid isolation of RNA by a guanidinium isothiocyanate/cesium chloride gradient method. BioTechniques, **4**, 11-15 (1986).
- 3. Cooney, C. A., and Matthews, H. R., in Methods in Molecular Biology, Walker, J., ed., Humana Press (Clifton, NJ: 1984), **2**, pp. 21-29.

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