

Cesium chloride

Product Number **C3309**

Store at Room Temperature

Product Description

Molecular Formula: CsCl

Molecular Weight: 168.4

CAS Number: 7647-17-8

Trace elemental analyses have been performed on the SigmaUltra CsCl. The certificate of analysis provides lot-specific results. SigmaUltra CsCl is for applications which require tight control of elemental content.

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 lambda DNA using CsCl solutions has been published.¹ A procedure for the isolation of RNA using a guanidinium isothiocyanate/CsCl technique has been published.² A procedure for the isolation of rDNA from nuclear DNA has been reported.³

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

1. 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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