

Sodium Chloride Sol.

Product	Con.	Cat#	Size
Sodium Chloride Sol.	5M	IBS-BS006	500ml
	4M	IBS-BS028	1000ml

Components : 5M or 4M Sodium Chloride Solution

Storage Conditions : Room Temperature

Description : Sodium chloride is a widespread material that is the source of chlorine and sodium for the production of related compounds such as sodium carbonate, sodium hydroxide, and chlorates. It occurs in nature as the mineral halite and can be isolated by the mining of rock salt, or the evaporation of brine or sea water. Large-scale applications include the manufacture of soap and dyes, food preservation, and the dyeing and printing of fabrics.

Application : Sodium chloride is widely used in biochemistry and molecular biology research. It is a component of phosphate buffered saline and SSC buffer. Applications of sodium chloride include the removal of small nucleic acid fragments from plasmid DNA preparations and the precipitation of DNA from SDScontaining samples. Sodium chloride has been used in the purification of bacteriophage λ arms and the isolation of single-stranded DNA from bacteriophage M13. Protocols that use sodium chloride for the isolation of DNA from mammalian cells which have been grown in multiwell plates and from small mammalian tissue samples have been described. Sodium chloride is also utilized in the chemical sequencing of DNA.

Sodium chloride is widely used in protein crystallization. It is also used in the column chromatography of proteins. The use of sodium chloride in the analysis of human α -thrombin by hydrophobic interaction HPLC has been reported. Capillary electrophoresis of proteins on an anionexchange column that uses a buffer of phosphate and sodium chloride has been investigated.