

Sodium Hydroxide (NaOH) Solutions

DNase, RNase and protease – none detected

Catalog Number **ML 022-01 (1.0 N HCl)**

ML 022-02 (10 N HCl)

Storage Temperature 15~30°C

Product Description

Sodium hydroxide (NaOH) is a caustic reagent that is widely used to neutralize acids and prepare sodium salts of reagent. It is also used in a variety of large manufacturing, the manufacture of soap and detergents, and water treatment. Sodium hydroxide is utilized in the Maxam-Gilbert DNA sequencing technique. An RNA gel blot procedure that uses 50 mM NaOH for simultaneous transfer and fixing of RNA to a positive charged nylon membrane has been described. The decontamination of mycobacterial isolates using a sodium lauryl sulfate (SDS)/sodium hydroxide protocol has been reported.

Storage/Stability

HCl solutions should be stored at 15~30°C. Deterioration of the liquid may be recognized by (1) precipitate or particulate matter throughout the solution, (2) cloudy appearance, (3) color change, and/or (4) pH change. Product label bears expiration date.

Precautions

For *In Vitro* Use Only

Product Profile	
Appearance	Clear colorless solution
DNase, RNase and protease	None detected
Sterility	Sterilized by 0.2 µm filtration system. Sterility tests are performed in accordance with protocols described in USP.

Molecular Weight

40.00 g/mole

Molecular Formula

NaOH

References

Maxam, A. M., and Gilbert, W., Sequencing endlabeled DNA with base-specific chemical cleavages. *Methods Enzymol.*, **65(1)**, 499-560 (1980).

Molecular Cloning: A Laboratory Manual, 3rd ed., Sambrook, J., and Russell, D.W., CSHL Press (Cold Spring Harbor, NY: 2001), pp. 12.60-12.65, 12.70-12.71.

Ingelbrecht, I. L., et al., Highly sensitive northern hybridization using a rapid protocol for downward alkaline blotting of RNA. *Biotechniques*, **25(3)**, 420-423, 425-426 (1998).