

## Sodium Hydroxide (NaOH) Solutions

DNase, RNase and protease – none detected

Catalog Number **LS 012-01 (0.5 N HCl)**

**LS 012-02 (1.0 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).