



Product Specifications

PHENOL, SOLID

<u>Catalog #</u>	<u>Size</u>
IB05160	100gm
IB05164	500gm

Physical Specifications

CAS#	108-96-2
Formula Weight	94.11
Molecular Formula	C ₆ H ₆ O
Purity	Min. 99.0%
Melting Point	41±1°C
Heavy Metal Content	<0.01%
Moisture	Max. 0.5%
pH (saturated)	5.5 ± 0.5

Molecular Biology Specifications

Saturation/Extraction Assay	Pass
Ligation/Recut Assay	Pass
Accelerated Shelf Life Assay	Pass

Recommended Use

IBI provides redistilled crystalline phenol for use in nucleic acid purification. Allow contents to equilibrate to room temperature before opening. Melt at temperatures no greater than 50°C, before saturating with a volume of water or buffer equal to the specified weight of phenol. If buffer equilibration is desired, only amounts to be immediately used should be saturated. The rate of oxidation and formation of breakdown products increases as pH increases. Oxidized phenol appears yellow or pink in color, and should NOT be used.

Example: For 100gm of phenol use 100ml of water or buffer. To purify 400µl of sample, add 400µl of saturated phenol.

Storage

Store crystalline phenol at -20°C. After saturating, store at +4°C. Keep tightly sealed. IBI phenol is prepared from ultra-pure phenol double-distilled under nitrogen. The product is packaged under nitrogen for maximum stability.

Warning

Poison! Corrosive. May be harmful if swallowed. Avoid inhalation of vapors. Use only in a well ventilated area. Avoid contact with eyes, skin and clothing; may cause severe burns. Wash all areas of contact with copious amounts of water. See Material Safety Data Sheet for additional information.