

## TMB 058 – PHENOL CRYSTAL (Molecular Biology Grade)

REF NO: TBL/QA/SS/LC/TMB 058	<b>STANDARD SPECIFICATION FOR PHENOL CRYSTAL (Molecular Biology Grade)</b>	Rev. No: 03
Issue No: 04		Review Date: 06/02/2025
Issue Date: 07/02/2022		Product code: TMB 058

### PRODUCT PROPERTIES

C.A.S Number	108-95-2
Chemical Formula	C <sub>6</sub> H <sub>6</sub> O
Formula weight	94.11
Functional Uses	Phenol is used as a component of DNA extraction buffer and also as a component of Alexander's stain solution
Standard Packaging	100 gm. & 500 gm.

### PHYSICAL PARAMETERS

PRODUCT PARAMETER	SPECIFICATION
Appearance	White crystals.
Solubility (5% soln.in water)	Soluble in water, clear solution.

### CHEMICAL PARAMETERS

PRODUCT PARAMETER	SPECIFICATION
pH (5% soln. at 25°C)	4.5 – 6.0
Water (By KF)	NMT – 0.2%
Non-volatile matter	NMT – 0.01%
Chloride (Cl)	NMT – 0.0005%
Sulphate (SO <sub>4</sub> )	NMT – 0.005%
Heavy metals (Pb)	NMT – 0.0001%
DNases/RNases	None detected
Proteases/ Phosphatases	None detected
Assay	NLT – 99.5%

**NOTE:** Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices.

