

Imidazole Solution

Product	Con.	Cat#	Size
Imidazole solution	1 M, pH 8.0	IBS-BI004	500ml
	2 M, pH 7.5	IBS-BI005	500ml
	2.5 M, pH 7.5	IBS-BI006	500ml

Components : 2 M (or 2.5M) Imidazole solution, pH 7.5
1 M Imidazole solution, pH 8.0

Storage Conditions : Room Temperature

Description :

Imidazole is a special preparation of imidazole having low UV absorbance. Solutions containing imidazole are commonly used for the purification of histidine-tagged proteins by immobilized metal affinity chromatography (IMAC). Many commercial imidazole preparations contain UV-absorbing contaminants that interfere with spectrophotometric readings of protein solutions at 280 nm. SembaChrom Grade Imidazole has been processed to remove these contaminants, resulting in negligible background levels. The ready-to-use 2.5 M solution has been adjusted to pH 8.0 and filtered for convenient preparation of IMAC buffers.

Application :

Imidazole can be used as a buffer in the pH range of 6.2-7.8 at 25°C. It is recommended as a component of a buffer for assay of horseradish peroxidase and as chelator for the binding of various divalent cations. Imidazole can be used for the elution of histidine containing proteins from divalent cation resins (HisSelect.-HC Nickel affinity gel) and can also be used in reverse staining of SDS-PAGE gels for detection of proteins.