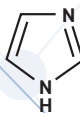


Severn Biotech Ltd.

Imidazole IMAC Elution Buffer



Sterile 0.2 micron filtered solution supplied in 1000ml Nalgene PP Bottles

2M Imidazole Solution in Water is a concentrated stock solution used primarily in Molecular Biology & Biochemistry to elute His-Tagged proteins by immobilised Metal Affinity Chromatography. (IMAC)

Ni or Co- Chelate Bead columns are used to isolate, **then elute bound His-tagged proteins** using a diluted stock solution of Imidazole between 100-500mM concentration.

Severn Biotech manufacture both concentrates and working strength solutions for use in IMAC affinity work.

The Binding & Wash Buffer (10-40mM) is used to minimise non-specific binding of contaminants during purification. pH buffering offers greater stability to proteins and is suitable for enzyme assays and protein purification.

2M Imidazole Solution 20-9900-10 1000ml pH 7.5 (Stock solution) CAS 288-32-4

This 0.2 micron filtered stock solution is generally stable but should be protected from light and stored between 2°-8°C, so refrigeration temperatures.

It can be used in accordance with Sodium Phosphate or Tris Buffers (pH 7.4-8.0) for which the 2M solution can be diluted to maintain pH stability. It can also be used in conjunction with 0.5M Sodium Chloride solution to reduce non-specific electro-static interactions.

Specialised purification of proteins by SDS page or analysing protein purity can be optimised with Urea or Guanidine HCL denaturing conditions. Protein crystallisation using PEG 8000, imidazole solutions serve to buffer along with Sodium Acetate Tri-hydrate used in specific pH ranges.

Working strength solutions are also available

0.25M Imidazole Solution Product Code AB400-01 100ml (250mM Ready to use working strength Elution Buffer)

This Imidazole buffer is a lower strength ready to use formulation available at a lower concentration for the elution of His-tagged proteins from IMAC columns. Storage temperature 2°-8°C.

Avoid freezing. Short term storage temperature use 15°C-25°C.

Empirical Formula $C_3H_4N_2$

CAS Number: 288-32-4

Molecular Weight: 68.08

UNSPSC Code: 12161700

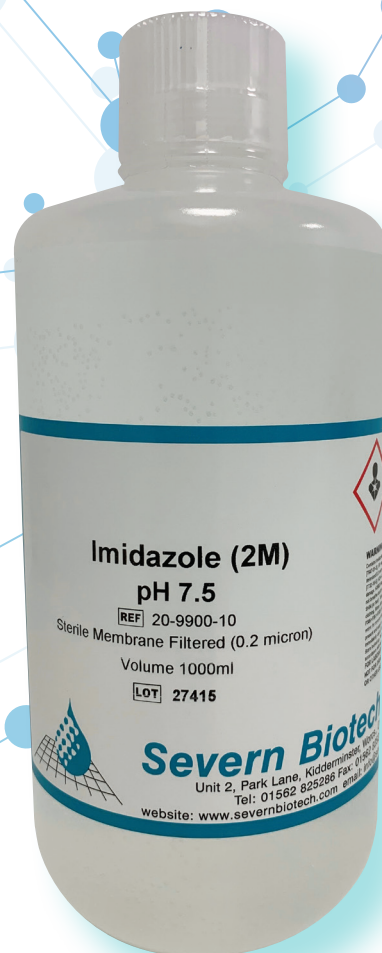
NACRES: NA.25

PubChem Substance ID: 57652144

MDL number: MFCD00005183

Beilstein/REAXYS Number: 103853

eCl@ss: 39161001



For further information on Severn Biotech Products please contact us directly:
Severn Biotech Ltd Unit 2 Park Lane Kidderminster Worcestershire DY116TJ
Tel :01562-825286 Fax 01562-825284 E-mail info@severnbiotech.com

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