

Product Information

HIS-Select™ Wash and Elution Buffer Kit

Product Code **HS0100**

Store at Room Temperature

Product Description

The HIS-Select™ Wash and Elution Buffer Kit contains a 10 mM imidazole Wash Buffer and a 250 mM imidazole Elution Buffer for use in the purification of recombinant proteins with histidine or MAT™ (Metal Affinity Tag) containing tags under native conditions. The buffers are designed to be used with HIS-Select products and other immobilized metal affinity chromatography (IMAC) systems. The Wash Buffer is a buffered solution of 10 mM imidazole, optimized to minimize non-specific binding of proteins during the protein purification process. The Elution Buffer is a buffered solution of 250 mM imidazole, optimized to elute the bound histidine-tagged target protein(s). The buffers are sold individually or as a kit.

Components

HIS-Select Wash Buffer 500 ml
 (Product Code H 5288)
 10 mM imidazole in 0.3 M sodium chloride and 50 mM sodium phosphate, pH 8.0

HIS-Select Elution Buffer 250 ml
 (Product Code H 5413)
 250 mM imidazole in 0.3 M sodium chloride and 50 mM sodium phosphate, pH 8.0

Reagents and Equipment Required but Not Provided

- Appropriate HIS-Select Affinity Product and products required for the purification procedure (see Table 1).

Precautions and Disclaimer

This kit is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

The HIS-Select Wash and Elution Buffers are stable for at least one year, unopened at room temperature.

Procedure

Use the HIS-Select Wash and Elution Buffers with any standard IMAC procedure. For detailed procedures with HIS-Select products (see Table 1), visit the Sigma-Aldrich web site (www.sigma-aldrich.com) to view the Technical Bulletins for these products.

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Table 1.

Optimal Imidazole Concentrations for Individual HIS-Select Products

HIS-Select Product	Wash Buffer	Elution Buffer
Nickel Affinity Gel (Product Code P 6611)	10 mM	250 mM
High Flow (HF) Nickel Affinity Gel (Product Code H 0537)	10 mM	250 mM
Cobalt Affinity Gel (Product Code H 8162)	10 mM	250 mM
Nickel Cartridges (Product Code H 8286)	10 mM	250 mM
Nickel Spin Columns (Product Code H 7787)	5 mM (2-fold dilution with water)	250 mM
EZview™ Red Affinity Gel (Product Code E 3528)	10 mM	250 mM
Nickel Magnetic Beads (Product Code H 1786)	10 mM	250 mM

Note: For MAT-tagged proteins, which have a lower affinity for the HIS-Select Affinity Gel, dilute the 10 mM imidazole Wash Buffer 2-fold with water, for a final concentration of 5 mM imidazole in the HIS-Select Wash Buffer.

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