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Catalog Number	214303
Product Name	Calmodulin Affinity Resin
Expiration Date	2022-12-30
Quantity	10 ml
Certified By	Kelly Flesher
Quality Controlled By	Matt Huffman
Shipping Conditions	Shipped with an ice pack.
Storage Conditions	The Calmodulin Affinity Resin must be stored at +4°C.

Description

The Calmodulin Affinity Resin allows for efficient purification of calmodulin-binding peptide (CBP)-tagged fusion proteins.

Test Conditions

The Calmodulin Affinity Resin is tested by successfully purifying 75-150 µg of a control protein using 50 µl of resin.

Storage Buffer

The Calmodulin Affinity Resin is supplied in a storage buffer containing 20% (v/v) ethanol, 0.1 mM CaCl₂, 20 mM Tris-HCl (pH 7.5), and 500 mM NaCl. Before the Calmodulin Affinity Resin is used, the resin must be equilibrated to match the buffer constituents of the selected binding buffer. Agilent recommends using a binding buffer containing 1-2 mM CaCl₂.

Regeneration of the Calmodulin Affinity Resin

Following protein purification, wash the Calmodulin Affinity Resin with 3 column volumes of 2 mM EGTA plus 1 M NaCl before equilibrating the resin with binding buffer. Agilent recommends washing the resin by performing the following protocol:

1. Wash with 3 column volumes of 0.1 M carbonate buffer (pH 8.6) containing 2 mM EGTA.
2. Wash with 3 column volumes of 1M NaCl containing 2 mM CaCl₂.
3. Wash with 3 column volumes of 0.1M acetate buffer (pH 4.4) containing 2 mM CaCl₂.
4. Wash with binding buffer containing 1-2 mM CaCl₂.

In some cases, substances, such as denatured proteins or lipids, do not elute in the regeneration procedure. These can be removed by washing the Calmodulin Affinity Resin with a 0.1% non-ionic detergent (e.g., Triton X-100) at 37°C for 1 minute followed by a reequilibration with binding buffer. Store the Calmodulin Affinity Resin at 4°C in 20% (v/v) ethanol.

Limited Product Warranty

This warranty limits our liability to replacement of this product. No other warranties of any kind, express or implied, including, without limitation, implied warranties of merchantability or fitness for a particular purpose, are provided by Agilent. Agilent shall have no liability for any direct, indirect, consequential, or incidental damages arising out of the use, the results of use, or the inability to use this product.

Laboratory Reagent. Not for use in diagnostic procedures. This certificate is a declaration of analysis at the time of manufacture.

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