



BMA BIOMEDICALS



Peninsula Laboratories

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## Y-1000 Sep-Column (50 units per pack)

NOTE: This datasheet provides information for general care and use of the Sep-Column.  
Sorbent: 200mg of C<sub>18</sub> alkyl chain-bonded stationary phase.

### **Storage and disposal of cartridges:**

Cartridges stored in their original sealed pouch remain stable for long periods. Unused cartridges in opened pouches can be stored in a desiccator. Store desiccator in a cool dry place.

Dispose of used cartridges safely in accordance with government and local regulations.

### **Recommended Use:**

#### **Extraction of Peptide from Plasma**

1. Add an equal amount of Buffer A to the plasma. For example, if you are using 1ml of plasma, acidify with 1ml of Buffer A. Centrifuge at 6,000xg to 17,000xg for 20 minutes at 4°C. Discard any pellet that may be present.
2. Equilibrate a SEP-COLUMN containing 200mg of C18 (Cat No. Y-1000) by washing with Buffer B or Buffer D (100% Acetonitrile) (1ml, once) followed by Buffer A (3ml, three times).
3. Load the plasma solution onto the pre-treated C-18 SEP-COLUMN.  
**Note:** For steps 4 and 5, a light vacuum (10 sec per drop) may be applied to the column.
4. Slowly wash the column with Buffer A (3ml, twice) and discard the wash.
5. Elute the peptide slowly with Buffer B (3ml, once) and collect eluant in a polypropylene tube.
6. Evaporate eluant to dryness using a centrifugal concentrator or other suitable method; e.g. lyophilizer.
7. Dissolve the residue in RIA buffer for radioimmunoassay. For a normal subject, dissolve in 250µl RIA Buffer for a two-tube assay. Aliquot 100µL into each tube (50µl is left over). If each tube is found to contain 3.963 pg, then the total level of peptide in plasma sample = 3.962 pg/tube x 2.5 tube = 9.9 pg. If upon assaying, the peptide value exceeds or does not fall in the range of detection, dilute or concentrate the samples accordingly.
8. The total time for extraction should be 0.5 days for extraction and 0.5 days for lyophilization. Store lyophilized sample at -70°C and assay as soon as possible.

**NOTE:** This is a generic extraction protocol, which can be used for multiple types of samples. If a more suitable extraction method is found in literature, we encourage the researcher to use it.

Related Products: Y-1010: SEP-Column Adapters (15 per box)  
Y-1040: Buffer A  
Y-1045: Buffer B  
Y-1050: RIA buffer