

ULTRON ES-OVM PREP (10)

(ovomucoid bonded chiral separation column)

Instruction Manual

1. Introduction

Thank you for purchasing a ULTRON ES-OVM PREP (10) series column for High-performance liquid chromatography. ULTRON ES-OVM is the column for chiral separation chromatography. The packing is chemically bonded chiral-recognition protein, ovomucoid on 10 μ m silica microsphere.

2. Safety Considerations

- All points of connection in liquid chromatographic systems may be sources of leaks.
Be aware of the toxicity or flammability of mobile phases used.

3. Operation Guidelines

- Column is shipped with 2-propanol (IPA)/H₂O:1/2.
- Flow mobile phase in the direction indicated on the column label only.
- Maximum usable pressure is 1.47 x10⁷Pa.
- Do not use column below pH 3.0 or above pH 7.5.
- Maximum operating temperature is 30 °C.
- Column is compatible with an aqueous buffer (phosphate, etc) and ordinary organic solvents (e.g., methanol, ethanol and acetonitrile). The use of high concentration organic solvent (> 10%) are not recommended.
- Do not subject to shock such as dropping, etc.
- Dust particles in mobile phase and sample solution lead to plugging at the column inlet filter or at the top of column bed.
Filter the mobile phase and sample solution prior to use, if necessary

4. Column Maintenance

- In order to protect the analytical column against contaminants and microparticle, the use of guard column are recommended for most applications.
- Contaminants which lead to poor peak shape may be removed by flushing with 2- propanol (IPA)/H₂O:1/2
- For long-term storage, columns are preferred to store with 2-propanol (IPA)/H₂O:1/2 in a cold place(25°C or less) after flushing buffer solution and then plugs both ends of column tightly.

ULTRON series packed columns are shipped under highly controlled conditions. However, if you should find any defect, please contact your dealer or Shinwa.

Note that Shinwa does not warrant the product against column life or deterioration caused by the failure to follow the above instructions.



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