

## Column Care and Use Instructions

# YMC-Actus SP

Thank you for purchasing a YMC-Actus SP column. To ensure optimal performance and durability of the column, please read these instructions carefully before using this column.

### 1. Specifications

Item	YMC-Actus SP
Column I.D.(mm)	80, 100
Column length(mm)	150-250 (Indicated in the COLUMN INSPECTION REPORT)
Pressure limit	10 MPa
Regular temperature range	20-40°C
Regular column connection	1/8" Female nut
Shipping solvent	Reversed-Phase: 85% methanol aqueous solution (Indicated in the COLUMN INSPECTION REPORT)

\*Refer to the Care & Use Instructions of corresponding packing materials for information not described above (usable pH range etc.)

### 2. Precautions for use

- Lock the wheels when in use. Handle with caution not to fall over when moving the YMC-Actus SP is a heavy goods.
- Take measures such as grounding to prevent accidents cause by static electricity.
- The correct direction of the solvent flow is indicated by an arrow on the column identification label.
- The lifetime of packing material varies depending on conditions of use such as pH, mobile phase composition and loading. In general, higher loading, and/or higher concentration of buffer salts/additives can shorten the lifetime. We recommend cleaning the packing material periodically to extend the lifetime.
- To protect a column/packing material, a sample containing a lot of impurities should be filtered out before injection.
- Avoid using a column repeatedly around the pressure limit or abrupt change in pressure to prevent shortening of the column life.
- Adjust the flow rate appropriately as the pressure changes depending on the column length, temperature, types of organic solvent etc.

### 3. Column cleaning and storage

#### General cleaning procedure

- Flush the column with solution containing a higher ratio of organic solvent for washing out the compounds retained more strongly in the column after using mobile phases not containing buffer salts/additives. Usable concentration of organic solvent is up to 100%.
- In the case of using mobile phase containing buffer salts/additives, flush with water/organic solution containing no buffer salts/additives (A ratio of water to organic solvent should be set at the same proportions as the mobile phase). Then flush the column in accordance with the method described above.

#### Column storage

- Clean the column with the method described above and replace with organic solvents such as shipping solvent.