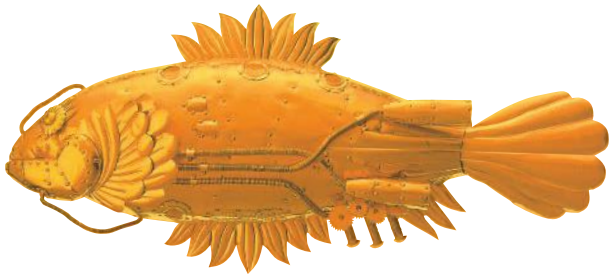
Shodex™



HPLC Columns

MANUAL

Asahipak NH2P-LF

SHOWA DENKO EUROPE

Columns manufactured by Showa Denko K.K Japan
Made in Japan

Shodex HPLC Columns
Europe, Middle East, Africa, Russia

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Operation Manual
Shodex™ Asahipak™ NH2P-LF

(Please read this manual carefully before using the column to ensure performance and life.)

Shodex Asahipak NH2P-LF column is developed as line-filter for Shodex Asahipak NH2P series. In order to maintain column performance for a longer time and to obtain better reproducibility of chromatograms, please use NH-LF column to remove ingredient in eluent.

1. Specifications

Column size:	8.0 i.d. x 75 length (mm)
Connection screw:	Swage lock type (No. 10-32 UNF)
Column material:	SUS 316
In-column solvent:	CH_3CN / H_2O = 75 / 25
Maximum flow rate:	4.0 mL/min
Maximum pressure:	10 kgf / cm²

2. Column installation

① Make eluent for NH2P ser1es and pump it to chromatograph without analytical NH2P series.

② Install NH2P-LF column between pump and injector with the flow through the column matching the flow direction arrow on the column label.

③ After pumping 5 mL of the eluent with the flow rate of 1 mL/min, connect the analytical NH2P series to the outlet of injector.

④ Set the flow rate at the range given in the operation manual of the analytical NH2P series and start the pump.

3. Column life of NH2P-LF column

In case that the eluent is made from acetonitrile of HPLC grade and purified water, it is possible to flow the eluent up to 5 L.

4. Regeneration

Since NH2P-LF column catches many kinds of ingredient in the eluent, wash the NH2P-LF column with alkaline and acidic solutions for regeneration.

During this regeneration, disconnect analytical NH2P series column.

Pump ①, ②, ③, ④ and ⑤ solutions to the NH2P-LF column in order at the flow rate of 2 mL/min from reversed side of flow direction arrow on the column label.

Pump ⑥ solution to the NH2P-LF column at the flow rate of 2 mL/min from normal side of flow direction arrow.

(Values in brackets mean the volume of washing solution)

① Purified water (6 mL)

② 0. 1M $HCL0_4$ solution (60 mL)

③ Purified water (6 mL)

④ 0. 1M NaOH solution (60 mL)

⑤ Purified water (10 mL)

⑥ Eluent for analytical NH2P series (30 mL)

Caution! When $HCl0_4$ solution is mixed with NaOH solution, $NaCl0_4$ is produced in the mixed solution. Since $NaCl0_4$ is combustible and explosive compound, never concentrate or dry the mixed solution.