

Shodex™



HPLC Columns

MANUAL

RSpak JJ-50

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™ RSpak™ JJ-50

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

1. Introduction

Shodex RSpak JJ-50 was designed for the analysis of surfactants such as Nonylphenol and Nonylphenoxy carboxylic acid. The compounds can be separated with the multi-mode that is the combination of GFC, reversed phase and ion exchange mode. The separation mode is determined according to the choice of eluent condition.

2. Specifications

Products	Size	Plate number/column	In-column solvent
RSpak JJ-50 4D	4.6mmID x 150mmL	>4,500	CH ₃ CN/H ₂ O = 60/40
RSpak JJ-50 2D	2.0mmID x 150mmL	>3,500	CH ₃ CN/H ₂ O = 60/40

Connector: Internally-threaded type, No. 10-32 UNF.

Column material: 316 stainless steel.

Packing material: Polyvinylalcohol gel which is chemically bonded with quaternary ammonium. (5 μm)

3. Analysis condition

Products	Max flow rate	Max pressure	pH range
RSpak JJ-50 4D	1.2 mL/min	9.0 MPa	2-10
RSpak JJ-50 2D	0.3 mL/min	9.0 MPa	2-10

The columns should be used below the Max value in each item.

Flow rate for replacement solvent: 1/3 of above flow rate.

Organic solvent: Acetonitrile and Methanol are available.

Salt concentration: < 0.1 Mol.

Temperature: 10 ~ 60 °C (recommended: 25 ~ 40 °C)

4. Caution

1) Eluent:

Use the eluent into the column after passing through a 0.45 µm membrane filter to remove particles.

2) Sample:

Inject the sample into the column after passing through a 0.45 µm membrane filter to remove particles. In case of any pollution such as small particles and proteins, column troubles would be caused.

3) Storage:

① When Cl ion is contained in the eluent, the column should be thoroughly flushed Cl ion with pure water and store the column.

② Tightly cap both ends of column after disconnecting from the LC system in order to prevent internal drying, and stored the column in a room that has less temperature fluctuation.