



SkillPak™ 1 mL Instruction Manual for TOYOPEARL®, TSKgel® and Ca⁺⁺Pure-HA™ Process Media

Introduction

SkillPak 1 mL columns (7 mm ID × 2.5 cm) are designed for resin screening, method development and sample concentration for biomolecules. These columns are pre-packed with TOYOPEARL, TSKgel or Ca⁺⁺Pure-HA process chromatography media and are designed to be operated with commonly used low or medium pressure liquid chromatography systems.

Product Description

Hardware Materials

The hardware of SkillPak 1 mL columns is composed of bio-compatible polymers, mainly polypropylene. Table 1 lists properties and operation specifications of the SkillPak 1 mL columns.



Instructions for Use

Installation

SkillPak 1 mL columns are ready to use upon receipt. Snap off end at outlet of column and screw directly into chromatography system. Connect inlet of column to instrument using 10-32 fitting. Finger-tight is recommended.

Equilibration

Before the first sample injection, the column should be equilibrated with at least 10 CV of the respective loading buffer. See Table 1 for flow rate and operating pressure. Slowly increase flow until it reaches the desired running flow rate. Do not exceed the recommended maximum flow rate.

Table 1. Specifications of SkillPak 1 mL columns

Column dimension	7 mm ID × 2.5 cm bed height
Volume	1 mL
Maximum flow rate	4 mL/min (600 cm/hr)
Maximum operating pressure	0.3 MPa
Connections	Standard fittings (10-32 for 1/16 inch capillary)
Shipping buffer	20% ethanol for TOYOPEARL and TSKgel [with the exception of 0.5 mol/L sodium citrate with 20% ethanol for TSKgel SP-5PW (20) and SuperQ-5PW (20)], 20 mmol/L phosphate with 20% ethanol for Ca ⁺⁺ Pure-HA

Buffer composition and gradient design is dependent on the resin type and resin chemistry. Please refer to the TOYOPEARL, TSKgel or Ca⁺⁺Pure-HA product documentation for more information about recommended mobile phases.

Usage

SkillPak 1 mL columns are intended for one time use/one series of injections while remaining connected to the system. The columns are not designed to be repacked.

Tosoh Corporation

Bioscience Division

Shiba-Koen First Bldg.
3-8-2 Shiba, Minato-ku
Tokyo, 105-8623, Japan
Tel: +81-3-5427-5180
email: hlc@tosoh.co.jp

Tosoh Bioscience GmbH

Im Leuschnerpark 4
64347 Greisheim, Germany
Tel: +49-6155-7043700
email: info.tbg@tosoh.com

Tosoh Asia Pte. Ltd.

63 Market Street #10-03
Singapore 048942
Tel: +65-6226-5106
email: info.tsas@tosoh.com

Tosoh Bioscience LLC

3604 Horizon Drive, Suite 100
King of Prussia, PA, USA 19406
Tel: +1-800-366-4875
email: info.tbl@tosoh.com

Tosoh Bioscience Shanghai Co., Ltd.

Room 1001, Innov Tower, Block A
1801 Hong Mei Road,
Xu Hui District, Shanghai 200233, China
Tel: +86-21-3461-0856
email: info.tbs@tosoh.com.cn

Tosoh India Pvt. Ltd.

E-302, Lotus Corporate Park,
Graham Firth Compound
Western Express Highway, Goregaon (East)
Mumbai - 400 063, India
Tel: +91-22-614-85200
email: contact@tosohindia.com

www.tosohbioscience.com

Tosoh Bioscience, TSKgel and TOYOPEARL are registered trademarks of Tosoh Corporation. Ca⁺⁺Pure-HA is a registered trademark of Tosoh Bioscience LLC in the USA, EU, India, and Japan. SkillPak is a registered trademark of Tosoh Bioscience LLC in the USA.