

## SkillPak™ 1 mL INSTRUCTION MANUAL FOR TOYOPEARL®, TSKgel® AND Ca<sup>++</sup>Pure-HA™ PROCESS MEDIA

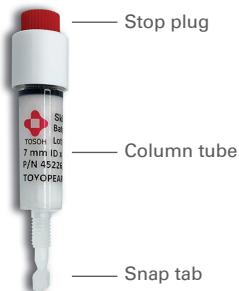
### INTRODUCTION

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<sup>++</sup>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 <sup>++</sup> Pure-HA

Buffer composition and gradient design is dependent on the resin type and resin chemistry. Please refer to the TOYOPEARL, TSKgel or Ca<sup>++</sup>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.

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