



楚天微球
TRUKING MICRO-SPHERE

**Truking Micro-sphere Biotechnology Co.
Product Manual**

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Fully Equipped Chromatography Column Racks

Product Manual



楚天微球生物技术(长沙)有限公司
TRUKING MICRO-SPHERE BIOTECHNOLOGY (CHANGSHA) CO., LTD

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1. Product Introduction

Truking chromatography column rack is specially designed for laboratory scale to pilot scale chromatography columns, especially suitable for molecular sieve columns longer than 60cm, designed with a variety of ways to clamp the chromatography columns, not only the molecular sieve columns with a diameter of more than 5cm can be firmly fixed in the column rack also can be multiple short chromatography columns are fixed on the rack. It adopts 304 stainless steel square tube as the frame and solid stainless steel bar as the support rod, and also designed with screws for adjusting the level and collection holes for holding collection tubes.

The features of this product are:

- Simple design
- Multi-functional, can be used for the column in use, but also can be used as a temporarily unused chromatography column storage.
- Wide range of use, can hold chromatography columns as small as 1cm in diameter or as thick as 10cm.
- All parts are made of stainless steel, easy to clean.

2. The structure of Fully Equipped Chromatography Column Racks

The column holder is mainly composed of base, vertical beam, support rod, support beam and collection ring, and there are holes on the vertical beam for placing column clamps and holes on the base for placing collection tubes. The specific parts are shown in the attached figure.



3. Chromatography column holder use method

3.1. Clamp the column with diameter above 2.6cm, especially the use of molecular sieve column with height above 60cm.

- ① Adjust the slider to a suitable height and fix it on the support bar with hexagonal socket.
- ② Insert a chain clip with a 12 mm rod into the hole of the cross-linked slider and leave it unsecured for the time being.
- ③ Place the column on the two bottom support beams, taking care to position the column tubing between the two beams to avoid squeezing the outlet tubing.
- ④ Hang the chain around the column on the other end of the chain clamp and tighten the nut with the spring.
- ⑤ Secure with a 3mm hexagonal socket.

3.2. Checking the clamping of slender columns (inner diameter ≤ 2.6 cm).

- ① Three-jawed clamp with top wire can be used, fix the three-jawed clamp on the support bar.
- ② Put in the chromatography column, if placed on the back of the column clamp, put the bottom side of the chromatography column on the support beam, take care not to press the outlet pipe of the chromatography column.
- ③ Tighten the tri-grip clamp.

3.3. Clamping of short columns

- ① Three-grip clamps without top wire can be used to insert the column clamp rod into the hole on the vertical beam.
- ② Tighten the screws on the side of the vertical beam to secure the three-jawed clamp.
- ③ Place the chromatography column.
- ④ Tighten the clamping nut.

3.4. Horizontal adjustment of the chromatography column holder

- ① Since clamping the column does not guarantee that the column is vertical or horizontal with respect to the column clamp, a level should be placed on the column to be adjusted.
- ② Adjust the level of the column by turning the three leveling screws on the base.
- ③ Be careful not to turn all three leveling screws too high as there is a risk of tipping, make sure that one screw is not supporting or protruding slightly from the base and adjust the other two screws.

4. Ordering Information

Table 1 Article numbers

Chromatography column holders and accessories	Item No.	Packaging (pcs.)
Fully Equipped Chromatography Column Racks (with ten clamps, two chain clamps four variable three-jawed clamps four rod three-jawed clamps)	A9021	1
<i>Chain clamp</i>	<i>A9018</i>	<i>1</i>
<i>Variable-direction three-jawed clamps</i>	<i>A9019</i>	<i>1</i>
<i>Lever type three-jawed clamps</i>	<i>A9020</i>	<i>1</i>