

SP Sepharose™ Big Beads Food Grade

Instructions for Use

Food contact substance notification

SP Sepharose™ Big Beads Food Grade (CAS Reg. No. 676618-71-6) is approved by the U.S. Food and Drug Administration (FDA) for use as a food contact substance according to notification FCN 000443.

Further information on the FDA premarket notification program for food contact substances is available on the agency's internet site.

Intended use

The ion exchange chromatography resin, SP Sepharose Big Beads Food Grade, is intended for the separation of proteins or other similarly concentrated compounds from liquid foods such as milk, whey, fruit juice, beer, and wine.

Wash before first-time use

Before first-time use of a packed column, wash the chromatography resin as follows:

Step	Action
1	Wash the resin with 5 column volumes (CV) of water.
2	Wash the resin with 5 CV of 1 M NaCl.
3	Leave the resin in the column in 1 M NaCl for 12 h.
4	Wash the resin with 5 CV of water.

Recommended process conditions

The table below lists the recommended conditions for different process types.

Process type	pH	Temperature (°C)
Continuous processes	4.5–12	< 40
Cleaning	≤ 14	20
	≤ 13.4	60

Limitations

The chromatography resin can undergo hydrolysis at extreme pH values, especially at low pH values. Therefore, limit exposure to low pH values to prevent excessive degradation. Use at lower pH values is possible but maximum exposure times apply, see table below.

pH	Maximum exposure time ¹ (h) at:	
	20°C	40°C
4	20 000	4000
3	7500	1700

¹ Total number of hours during resin lifespan.

Ordering information

Product	Pack size	Product code
SP Sepharose Big Beads Food Grade	1 L	11000829
	10 L	11000830
	60 L ¹	17065760

¹ Pack size available on request.



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