

Porozorb Cartridges

Product Specification



996-0061

Ready-To-Use

Porozorb™ cartridges are ready-to-use sterile, endotoxin-free columns containing specially cleaned Amberlite® XAD®-4 resin or Amberlite XAD-16 resin. They are produced following current Good Manufacturing Practices (cGMP).

Proven Technology

Both resins are chemically inert, polymeric hydrophobic adsorbents that are temperature and pressure-resistant. Amberlite XAD-4 resin is highly effective in adsorbing relatively low molecular weight, water soluble organic compounds from aqueous systems. Amberlite XAD-16 resin is effective for separation of large organic molecules, especially proteins. These cleaned resins are also tested for residues and organic extractables (FCR 21: 173.65).

The cartridges are made of polycarbonate with threaded end caps and stainless steel screens. Their use ranges from analytical to industrial scale processes.

Tested and Certified

A Certificate of Analysis that verifies sterility and endotoxicity testing is included with each cartridge. Sterility testing follows USP XXIII guidelines. Endotoxicity is tested using a validated LAL kit with any detectable level of endotoxin (0.03EU/mL) indicating a positive test.

Please inquire about additional Porozorb cartridges, custom-filled with other types of resins and media.

Applications

- Vaccine production
- Organics from aqueous food streams
- Removal of surfactants
- Color producing compounds from industrial effluents
- Recovery, isolation, and purification of water-soluble steroids, amino acids, and polypeptides
- Bitter components from fruit juices
- Removal and recovery of phenol, chlorinated organics, and pesticides

Cartridge Specifications

Cartridge Dimensions	Size (mL)	Length (cm)
	250	6.55
500	13.10	
1000	26.20	
1500	39.30	

Shell ID	Clear polycarbonate
Retaining Screens	8cm Highest quality stainless steel mesh 50 x 250
Gaskets	Melrath medical grade
Nipple Connections	3/16" ID, 1/4" OD
Sanitary Fittings	1"
Maximum Pressure	30psi
Shipping Conditions	Sterile, endotoxin-free

Ordering Information:

With nipple connections. Inquire about cartridges with sanitary endfittings.

Description	Cat. No.
Porozorb Cartridges with Amberlite XAD-4 Resin	
Porozorb 254 (250mL)	57500
Porozorb 504 (500mL)	57501
Porozorb 1004 (1000mL)	57502
Porozorb 1504 (1500mL)	57503
Porozorb Cartridges with Amberlite XAD-16 Resin	
Porozorb 266 (250mL)	57504
Porozorb 516 (500mL)	57505
Porozorb 1016 (1000mL)	57506
Porozorb 1516 (1500mL)	57507

Characteristics of Porozorb Cartridges

Porozorb Cartridge	Bed Vol. (mL)	Void Vol. (mL)	Bed Weight (g)	ID (cm)	Length (cm)	Calculated Saturation Capacity		
						g Triton® X-100/ Cartridge	g SDS/ Cartridge	g CHAPS/ Cartridge
Amberlite XAD-4								
254	250	70 ±10	100 ±5	8	6.55	44.0	125	78
504	500	145 ±10	173 ±5	8	13.10	76.1	216	135
1004	1000	296 ±10	370 ±5	8	36.20	168.8	462	288
1504	1500	380 ±10	510 ±5	8	39.30	224.4	638	398
Amberlite XAD-16								
266	250	85 ±10	65 ±5	8	6.55	46.2	na	na
516	500	150 ±10	138 ±5	8	13.10	98.0	na	na
1016	1000	270 ±10	390 ±5	8	36.20	276.9	na	na
1516	1500	406 ±10	688 ±5	8	39.30	376.3	na	na

na = not available

Trademarks

Amberlite, XAD — Rohm and Haas Company

Porozorb — Supelco, Inc.

Triton — Union Carbide Corp.

Contact our Technical Service Department
(phone 800-359-3041 or 814-359-3041, FAX 814-359-5468)
for expert answers to your questions.

Note: Porozorb cartridges are not for clinical or diagnostic use. Sterility and endotoxigenicity-free certification are dependent on and limited to results from a single testing procedure. Liability is limited to replacement of the product. Determination of appropriate cartridge purity for a particular application, and techniques used to achieve this purity, are the purchaser's responsibility. Equilibrate the cartridge with matrix buffer prior to use. Porozorb cartridges contain patented materials.

For more information, or current prices, contact your nearest Supelco subsidiary listed below. To obtain further contact information, visit our website (www.sigma-aldrich.com), see the Supelco catalog, or contact Supelco, Bellefonte, PA 16823-0048 USA.

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