DuPont™ AmberChrom™ CG300M Chromatography Resin

Reverse Phase Polymeric Resin for Purification of Peptides and Small Active Molecules

Key Features

- Rigid, insoluble, and mechanically stable polymer.
- Chemical robustness to standard organic solvents and cleaning agents.
- Excellent alternative to reverse phase chromatography silica.

Key Applications

- Capture and purification of peptides (insulin, calcitonin).
- Solid phase extraction adsorbent for desalting and final polishing of oligonucleotides.
- Cytokine removal from blood plasma.
- Isolation and fractionation of drug targets from complex fermentation and natural product extracts.

Typical Properties

Physical Properties	
Copolymer	Divinylbenzene
Matrix	Macroporous
Type	Adsorbent
Physical Form	Opaque, white, spherical beads
Nitrogen BET	
Surface Area	700 m^2/g
Total Pore Volume	0.60-0.65 mL/mL
Average Pore Diameter	300 Å

Chemical Properties	
Functional Group	None
Chemical Resistance	Insoluble in dilute solutions of acids or bases and common solvents: IPA, ACN, MeOH
Particle Size	
Particle Diameter, mean	75 µm
% 50 – 100 µm	≥ 80%

Suggested Operating Conditions

Maximum Recommended Operating Temperature	60°C (140°F)
pH range	1-14
Maximum Recommended Operating Pressure	5 bar (72.5 psi)

General Information

- DuPont™ AmberChrom™ CG300M resin is supplied in a 50% (by volume) slurry form in an aqueous 20% ethanol solution.
- AmberChrom™ CG300M resin can be cleaned in the column or removed from the column and treated in bulk.
- AmberChrom™ CG300M should be stored in the column or as bulk resin in 20% propanol, methanol, ethanol or acetonitrile, preferably between 4°C and 25°C.
- The product can also be provided as a dry material upon request.

Important Information

- Polymeric adsorbents, as produced, contain by-products resulting from the manufacturing process. The user must determine the extent to which organic by-product must be removed for any particular use and establish techniques to assure that the appropriate level of purity is achieved for that use.
- Like any chromatographic stationary phase, a conditioning step with the working solvent must be performed before operation.
- **WARNING:** Oxidizing agents such as nitric acid attack organic ion exchange resins under certain conditions. This could lead to anything from slight resin degradation to a violent exothermic reaction (explosion). Before using strong oxidizing agents, consult sources knowledgeable in handling such materials.

Regulatory Note

DuPont can provide regulatory support for AmberChrom™ CG300M Chromatography Resin to end users under confidentiality, upon request.

Have a question? Contact us at:
www.dupont.com/water/contact-us

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