DuPont™ AmberChrom™ CG161M Chromatography Resin

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

Key Features

- Rigid, insoluble, and mechanically stable structure.
- High surface area and unique pore size.
- Chemically stable to standard organic solvents and cleaning agents.
- Excellent technical and economical alternative to RPC silica.

Key Applications

- Adsorption and reverse phase liquid chromatography.
- Purification of peptides.
- Separation of nucleosides.
- Kinetic exclusion process.

Typical Properties

Physical Properties	
Copolymer	Crosslinked divinylbenzene
Matrix	Macroporous
Type	Adsorbent
Physical Form	Opaque, white, spherical beads
Nitrogen BET	
Surface Area	900 m^2/g
Porosity	0.65 mL/mL
Average Pore Diameter	150 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™ CG161M resin is supplied in a 50% (by volume) slurry form in an aqueous 20% ethanol solution.
- AmberChrom™ CG161M resin can be cleaned in the column or removed from the column and treated in bulk.
- AmberChrom™ CG161M 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™ CG161M Chromatography Resin to end users under confidentiality, upon request.

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

Form No . 45-D01186-en, Rev. 2
June 2022