



# 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 <sup>2</sup> /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.



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