



# DuPont™ AmberChrom™ CG71C Chromatography Resin

Reverse Polymeric Resin for Purification Peptides and Small Active Ingredients

## Key Features

- Rigid, insoluble, aliphatic (acrylic ester) polymer.
- Mechanically stable.
- Chemically robust to standard reversed-phase solvents and cleaning agents.
- Stable within the entire pH range. Alternative to RPC silica.
- Suitable for high-resolution, low-pressure chromatography.

## Key Applications

- Separation of small peptides (growth hormones).
- Separation of small proteins.
- Separation of radioelements.

## Typical Properties

Physical Properties	
Copolymer	Acrylic ester
Matrix	Macroporous
Type	Adsorbent
Physical Form	Opaque, white, spherical beads
Nitrogen BET	
Surface Area	560 m <sup>2</sup> /g
Porosity	0.55 mL/mL
Average Pore Diameter	250 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	120 μm
% 80-160μm	≥ 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™ CG71C resin is supplied in a 50% (by volume) slurry form in an aqueous 20% ethanol solution.
- AmberChrom™ CG71C resin can be cleaned in the column or removed from the column and treated in bulk.
- AmberChrom™ CG71C 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™ CG71C Chromatography Resin to end users under confidentiality, upon request.



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