

# CarboSep Info Page

## CHO 87C Standard Manufacturing Carbohydrate Column

**CHROMATOGRAMS:** Standard Test, Isomaltose-Maltitol, Pinitol, Lactose-Lactulose

**MANUALS:** Start up Guide and 87C Manual

**PN:** CHO-99-9860    **Column Dimensions:** 300x7.8mm    **Bead Size:** 9um    **Moiety:** Ca

**Cross linkage:** 8%    **USP Designation:** L19    **Eluent:** Deionized Water

**Separation Mode:** Size Exclusion and Ligand Exchange are primary/secondary

**USAGE:** The CarboSep CHO 87C was designed for a faster separation mono & disaccharides and sugar alcohols found in food, beverages, medicines and plants. This calcium based, ligand-exchange column is used for routine quality inspection associated with manufacturing and R&D.

The 8% cross linked beads make this column very durable, long lasting and can run at higher flow rates. The calcium moiety makes for easy regeneration.

**COMMON ANALYTES:** Sucralose, Maltose, Lactose, Lactulose, Maltitol, Pinitol, Stachyose, Raffinose, Sucrose, Glucose, Galactose, Fructose, Mannitol, Sorbitol, Glycerol, Ethanol, Methanol

**COMMON SAMPLES:** Cookies, Syrups, beverages, fruits: food/plant digests, monitored physiological fluids and dairy products

### ADDITIONAL COLUMN SIZES:

**100x7.8mm, CHO 87C FA (fast analysis), PN: CHO-99-5860**

**300x21.2mm, CHO 87C Semi Prep, PN: CHO-99-6360**

**ADDITIONAL NOTES:** This gel-type column is packed with low cross linked, Styrene Divinylbenzene spheres that can irreversibly collapse due to high running back pressure. Like all gel-type columns, heating is very helpful to reduce back pressure as well as for the optimal separation of sugars. Reaching a temperature of 80°C is important for peak shape and plate count.

**COLUMN PROTECTION:** CHO 87C Guard Cartridges are offered as a pre-column or guard. The short path (20mm) link yields little additional retention time and back pressure. The CHO 87C Guard Cartridges are packed with the same chemistry as the analytical but with larger beads. Whatever contaminant that would adhere to the analytical polymeric bed will first adhere the guard. For those who need more guard capacity, we offer the 87C Guard Column: 50x4.6mm.

[CHO 87C Guard Cartridge](#) Part Number: CHO-99-1360 (2/pk), 4x20mm

[CHO 87C Guard Kit](#) Part Number: CHO-99-2360 (2/pk), contains 87C Guard Cartridges & Stainless Steel Cartridge Holder

[CHO 87C Guard Column](#) Part Number: CHO-99-3560, 50x4.6mm