

# Coregel Info Page

## Coregel ION 300

### Fast Organic Acid Analysis & Carbohydrates

**CHROMATOGRAMS:** Standard Test, Krebs's Cycle, Alcohol, Cheese/Milk Std, Formaldehyde-Formic, Lactobionic, Glucuronic

PN: ICE-99-9850      Column Dimensions: 300x7.8mm      Bead Size: 10um      Moiety: H<sup>+</sup>

Cross linkage: 6%      USP Designation: L17      Eluent: 8mM Sulfuric Acid

**Separation Mode:** Ion Exclusion is primary

**USAGE:** The Coregel ION 300 column was designed for the fast separation of organic acids and the 6% cross linkages yields high selectivity. The high selectivity allows for the separation of sugars, organic acids and alcohols. The ION 300 is excellent for separating the organic acids in the Krebs's Cycle and is used widely in research.

**COMMON ANALYTES:** Sucrose, Glucose, Fructose, Citric, Shikimic, Fumaric, Butyric, Glycolic, Glyconic, Glucuronic, Succinic, Oxalic, Tartaric, Malic, Ascorbic, Formic, Fumaric, Lactic, Acetic, Pyruvic, Ethanol, Methanol, Succinic, Glycerol, Sorbitol, Aconitic, Oxaloacetic, Ketoglutaric, Lactose, Formaldehyde, Formic

**COMMON SAMPLES:** Fruit juices, wine, dairy products, physiological fluids and environmental

**ADDITIONAL COLUMN SIZES:** NA

**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 organic acids.

**COLUMN PROTECTION:** ION 300 Guard Cartridges are offered as a pre-column or guard. The short path (20mm) link yields little additional retention time and back pressure. The ION 300 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.

**ION 300 Guard Cartridge** Part Number: ICE-99-2368 (2/pk), 4x20mm

**ION 300 Guard Kit** Part Number: ICE-99-2358 (2/pk), contains ION 300 Guard Cartridges & Stainless Steel Cartridge Holder