



# HICHROM

Chromatography Columns and Supplies

LC COLUMNS  
Nucleogen and  
Nucleogel

Catalogue 9

## Hichrom Limited

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## NUCLEOGEN® and NUCLEOGEL®

Macherey-Nagel manufactures a range of ion-exchange (NUCLEOGEN®), reversed-phase and gel filtration (NUCLEOGEL® GFC) columns for biochemical analysis, and ligand exchange (NUCLEOGEL Sugar) columns for food analysis.

### NUCLEOGEN Columns for Bioanalysis

- Silica based DEAE anion-exchangers
- Available with pore sizes 60, 500 and 4000Å
- NUCLEOGEN 60-7 DEAE for separation of oligonucleotides up to chain lengths of 40 bases
- NUCLEOGEN 500-7 DEAE for separation of tRNA, 5S RNA, viroids and messenger RNA in the intermediate molecular weight range 25,000 to 1,000,000 Da
- NUCLEOGEN 4000-7 DEAE for separation of plasmids, DNA restriction fragments, ribosomal RNA, messenger RNA and viral RNA



### Ordering Information

NUCLEOGEN Phase	Pore Size (Å)	Particle Size (µm)	Column Dimensions (mm)	Catalogue No.	Price
60-7 DEAE	60	7	125 x 4.0	736596.40	
60-7 DEAE	60	7	125 x 10.0	736597.100	
500-7 DEAE	500	7	125 x 6.0	736598	
500-7 DEAE	500	7	125 x 10.0	736599.100	
4000-7 DEAE	4000	7	125 x 6.0	736601	
4000-7 DEAE	4000	7	125 x 10.0	736602.100	
Guard column <sup>1</sup> (2/pk)	-	-	30 x 4.0	736400.40	

<sup>1</sup> Suitable for all NUCLEOGEN columns. Use with holder 721823

### NUCLEOGEL Columns for Food Analysis

- Sulphonated polystyrene-divinylbenzene resins
- Long column lifetimes
- Excellent pH stability

The NUCLEOGEL Sugar 810 series is based on spherical sulphonated polystyrene-divinylbenzene resin in different ionic forms. Separations of carbohydrates, organic acids and other polar small molecules are achieved by a combination of ion exclusion, ion-exchange, size exclusion, ligand exchange and partition mechanisms.

### NUCLEOGEL Sugar Phases

NUCLEOGEL Phase	Ionic Form	USP Classification	Recommended Applications
Sugar 810H	SO <sub>3</sub> H	L17	Sugars, sugar alcohols and organic acids
Sugar 810Ca	SO <sub>3</sub> Ca	L19	Mono-, di- and oligosaccharides

### Ordering Information

Column Dimensions (mm)	NUCLEOGEL Sugar Phase		Price
	810H	810Ca	
300 x 7.8	719574	719570	
30 x 4 (guard column <sup>1</sup> , 2/pk)	719575	719571	

<sup>1</sup> Use with holder 721823



Column: NUCLEOGEL Sugar 810Ca (300 x 7.8mm)  
 Eluent: Water  
 Flow rate: 0.6ml/min  
 Temperature: 85°C

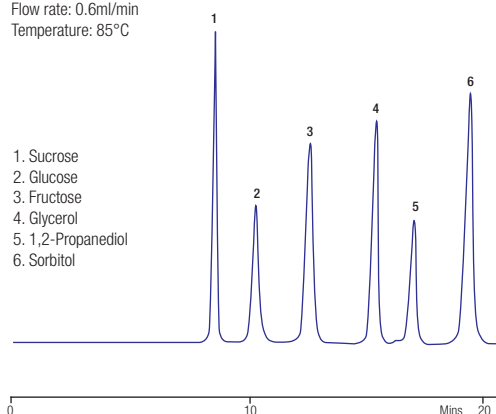


Figure 11. Separation of tobacco constituents