

NUCLEODUR® NH2 / NH2-RP

Due to the special method of surface modification NUCLEODUR® NH2 features a pronounced stability at higher as well as lower pH values. The following figure shows, that even after several days of exposure of the column material at pH 1.75 good separation efficiency and peak symmetry are maintained. The resulting high column life allows cost reduction due to lower column consumption.

The following example shows enhanced pH stability of NUCLEODUR® NH2 and outstanding suitability for the separation of total herbicides (AMPA, glyphosate, glufonate, ...) - see application No. 122190 in our online database at ChromaAppDB.mn-net.com.

Good to know

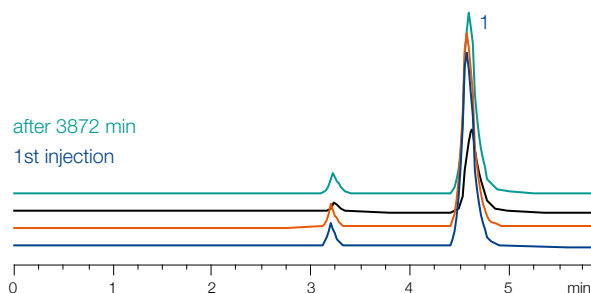
- Normal phase chromatography (NP) with hexane, dichloromethane or 2-propanol as mobile phase for polar compounds
- Reversed phase chromatography (RP) of polar compounds in aqueous-organic eluent systems
- Ion exchange chromatography of anions and organic acids using conventional buffers and organic modifiers

Hydrolytical resistance of NUCLEODUR® NH2-RP

Column: 250 x 4 mm NUCLEODUR® 100-5 NH2-RP
Eluent: acetonitrile – 50 mmol/L KH₂PO₄, pH 1.75 (50:50, v/v)
Flow rate: 0.6 mL/min
Detection: UV, 254 nm

Peaks:

1. Aminomethylphosphonic acid (AMPA)



Based on spherical NUCLEODUR® silica this phase features a high pressure stability which makes it the perfect choice for preparative separations as well as for LC/MS. Additionally, the high batch-to-batch reproducibility of NUCLEODUR® NH2 enables reliable analyses especially for routine work.

Ordering information

NUCLEODUR® NH2-RP / NH2

Analytical EC columns NUCLEODUR® NH2-RP (pack of 1)

Length (mm)	ID (mm)	Particle size (µm)	REF	Guard columns*
250	4.6	5	760732.46	761953.30
250	4	5	760732.40	761953.30
250	2	5	760732.20	761953.20
125	4	5	760730.40	761953.30
250	4.6	3	760739.46	761951.30
150	4.6	3	760742.46	761951.30
100	2	3	760740.20	761951.20

Analytical EC columns NUCLEODUR® NH2 (pack of 1)

Length (mm)	ID (mm)	Particle size (µm)	REF	Guard columns*
250	4.6	5	760722.46	761952.30
250	4	5	760722.40	761952.30
125	4.6	5	760720.46	761952.30

* Pack of 3, EC guard columns require column protection system REF 718966. For more information, see page 90.

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and information

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