ION EXCHANGE SPE - PART 1

Silica based

BEKOlut® SAX

is a strong basic anion exchanger based on silica.

Typical appl.: weakly acidic compounds from aqueous samples

Phase mechanism: Anion exchange

Silica based

BEKOlut® SCX

is a strong acidic cation exchanger based on silica.

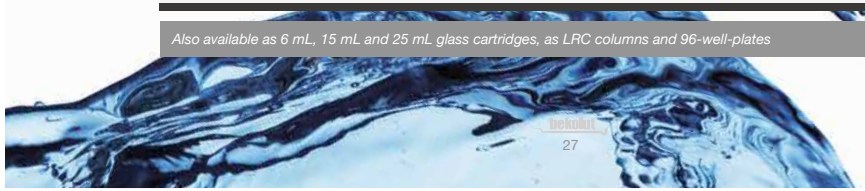
Typical appl.: weakly basic compounds from aqueous samples.

Phase mechanism: Cation exchange

ORDER INFORMATION

Sorbent weight	Volume	Unit / Pck.	SAX Order number	SCX Order number
100 mg	1 ml	100	B01-SAX-A010	B01-SCX-A010
200 mg	3 ml	50	B03-SAX-A020	B03-SCX-A020
500 mg	3 ml	50	B03-SAX-A050	B03-SCX-A050
500 mg	6 ml	30	B06-SAX-A050	B06-SCX-A050
1 g	6 ml	30	B06-SAX-A100	B06-SCX-A100
2 g	15 ml	20	B15-SAX-A200	B15-SCX-A200

Also available as 6 mL, 15 mL and 25 mL glass cartridges, as LRC columns and 96-well-plates



ION EXCHANGE SPE - PART 2

Polymer based

BEKOlut® Leox® CX (RP/strong acidic cation exchange)

Is a mixed-mode, strong acidic cation exchange resin, providing a dual retention mechanism and suitable for selective SPE of weakly basic drugs. Also, a stepwise elution is possible for the clean-up of biological samples in toxicological analyses. Neutral elution with methanol primarily elutes neutral compounds and only in the second step, weakly basic compounds will elute after addition of 2-5 % ammonia to the organic elution solvent.

Typical appl.: weakly basic pharmaceutical compounds from aqueous samples

- **Basis material:** PS-DVB copolymer
- **Specific surface area:** ca. 600 m²/g
- **Pore size:** 70 Angstrom
- **Particle size:** 38-55 µm
- **pH stability:** 0-14
- **Phase mechanism:** Cation exchange, RP

Polymer based

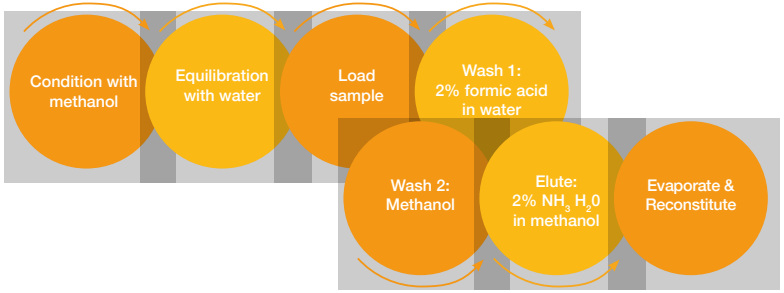
BEKOlut® Leox® WCX (RP/weak acidic cation exchange)

Is a SPE phase with dual retention mechanism – weak acidic cation exchange combined with a polymer based reversed phase mechanism for retaining strongly basic compounds.

Typical appl.: Extraction of strongly basic cations from aqueous solutions

- **Basis material:** PS-DVB copolymer
- **Specific surface area:** ca. 600 m²/g
- **Pore size:** 70 Angstrom
- **Particle size:** 38-55 µm
- **pH stability:** 0-14
- **Phase mechanism:** Cation exchange, RP

Recommended generic method for Leox® CX



ORDER INFORMATION

Sorbent weight	Volume	Unit / Pck.	Leox® CX Order number	Leox® WCX Order number
30 mg	1 ml	100	B01-PCX-A030	B01-WCX-A030
60 mg	1 ml	100	B01-PCX-A060	B01-WCX-A060
60 mg	3 ml	100	B03-PCX-A060	B03-WCX-A060
200 mg	3 ml	50	B03-PCX-A020	B03-WCX-A020
500 mg	3 ml	50	B03-PCX-A050	B03-WCX-A050
500 mg	6 ml	30	B06-PCX-A050	B06-WCX-A050
1 g	6 ml	30	B06-PCX-A100	B06-WCX-A100
2 g	15 ml	20	B15-PCX-A200	B15-WCX-A200

Also available as 6 mL, 15 mL and 25 mL glass cartridges and as LRC columns

ION EXCHANGE SPE - PART 3

Polymer based

BEKOlut® Leox® AX (RP/strong basic anion exchange)

This strong anion exchange resin has been developed to improve the performance of conventional silica based mixed-mode anion exchangers for the SPE of weakly acidic analytes.

Typical appl.: Extraction of weakly acidic pharmaceutical compounds from aqueous samples

- **Basis material:** PS-DVB copolymer
- **Specific surface area:** ca. 600 m²/g
- **Pore size:** 70 Angstrom
- **Particle size:** 38-55 µm
- **pH stability:** 0-14
- **Phase mechanism:** Anion exchange, RP

Polymer based

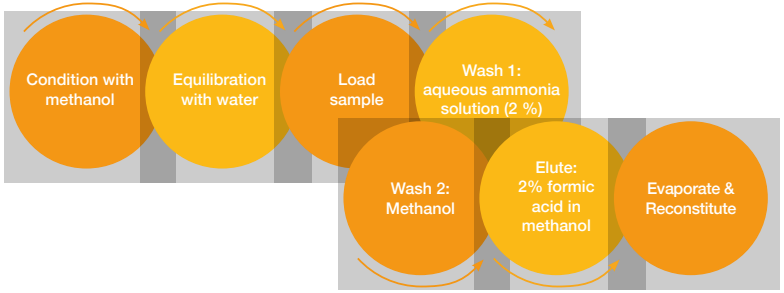
BEKOlut® Leox® WAX (RP/weak basic anion exchange)

facilitates a dual retention mechanism based on a weak basic anion exchange for strong acids and a neutral RP mechanism.

Typical appl.: Extraction of strongly acidic analytes from aqueous samples

- **Basis material:** PS-DVB Copolymer
- **Specific surface area:** ca. 600 m²/g
- **Pore size:** 70 Angstrom
- **Particle size:** 38-55 µm
- **pH stability:** 0-14
- **Phase mechanism:** Anion exchange, RP

Recommended generic method for Leox® AX



ORDER INFORMATION

Sorbent weight	Volume	Unit / Pck.	Leox® AX Order number	Leox® WAX Order number
30 mg	1 ml	100	B01-PAX-A030	B01-WAX-A030
60 mg	1 ml	100	B01-PAX-A060	B01-WAX-A060
60 mg	3 ml	100	B03-PAX-A060	B03-WAX-A060
200 mg	3 ml	50	B03-PAX-A020	B03-WAX-A020
500 mg	3 ml	50	B03-PAX-A050	B03-WAX-A050
500 mg	6 ml	30	B06-PAX-A050	B06-WAX-A050
1 g	6 ml	30	B06-PAX-A100	B06-WAX-A100
2 g	15 ml	20	B15-PAX-A200	B15-WAX-A200

Also available as 6 mL, 15 mL and 25 mL glass cartridges and as LRC columns