

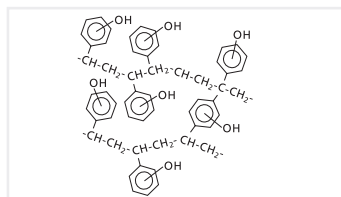
ISOLUTE® SPE Products

Sorbents and Formats for a Wide Range
of Sample Preparation Applications

ISOLUTE®

SPE Columns and Plates

ISOLUTE® ENV+

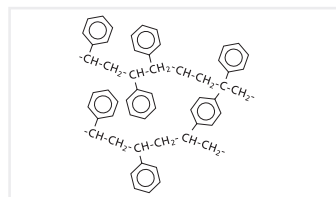


Chemical structure of ISOLUTE® ENV+, a hydroxylated polystyrene divinylbenzene co-polymer

Average particle size	110 µm
Pore diameter	800 Å
Sorbent Type	Non-Polar

Application: Extraction of very polar compounds that are not retained by C8 and C18 non-polar silica based sorbents.

ISOLUTE® 101



Chemical structure of ISOLUTE® 101, an unmodified polystyrene divinylbenzene co-polymer

Average particle size	50 µm
Pore diameter	100 Å
Sorbent Type	Non-Polar

Application: Extraction of polar compounds from aqueous sample matrices.

ISOLUTE® ENV+ SPE Columns

Part Number	Description	Qty.
915-0001-A	ISOLUTE ENV+ 10 mg/1 mL	100
915-0002-A	ISOLUTE ENV+ 25 mg/1 mL	100
915-0002-G	ISOLUTE ENV+ 25 mg/10 mL	50
915-0005-A	ISOLUTE ENV+ 50 mg/1 mL	100
915-0005-AG	ISOLUTE ENV+ 50 mg/1 mL (Tabless)*	100
915-0005-B	ISOLUTE ENV+ 50 mg/3 mL	50
915-0005-G	ISOLUTE ENV+ 50 mg/10 mL	50
915-0010-A	ISOLUTE ENV+ 100 mg/1 mL	100
915-0010-B	ISOLUTE ENV+ 100 mg/3 mL	50
915-0010-BA	ISOLUTE ENV+ 100 mg/3 mL (ASPEC Adaptor)	50
915-0010-BG	ISOLUTE ENV+ 100 mg/3 mL (Tabless)*	50
915-0010-C	ISOLUTE ENV+ 100 mg/6 mL	30
915-0010-H	ISOLUTE ENV+ 100 mg/10 mL	50
915-0020-B	ISOLUTE ENV+ 200 mg/3 mL	50
915-0020-C	ISOLUTE ENV+ 200 mg/6 mL	30
915-0020-CD	ISOLUTE ENV+ 200 mg/6 mL (Depth filter)	30
915-0020-CG	ISOLUTE ENV+ 200 mg/6 mL (Tabless)*	30
915-0050-B	ISOLUTE ENV+ 500 mg/3 mL	50
915-0050-BG	ISOLUTE ENV+ 500 mg/3 mL (Tabless)*	50
915-0050-C	ISOLUTE ENV+ 500 mg/6 mL	30
915-0050-D	ISOLUTE ENV+ 500 mg/15 mL	20
915-0100-C	ISOLUTE ENV+ 1 g/6 mL	30
915-0100-E	ISOLUTE ENV+ 1 g/25 mL	20

ISOLUTE® ENV+ Fixed Well Plates

Part Number	Description	Qty.
915-0010-P01	ISOLUTE-96 ENV+ 10 mg plate	1
915-0040-P01	ISOLUTE-96 ENV+ 40 mg plate	1

ISOLUTE® ENV+ On-line Cartridges

Part Number	Description	Qty.
OSPE-916-32150	ISOLUTE® ENV+ On-line SPE Cartridge 30 x 2.1 mm	1

Support Documents for ISOLUTE® ENV+

TN109: Method Development in Solid Phase Extraction using ISOLUTE ENV+ SPE Columns for the Extraction of Aqueous Samples

PPS422: ISOLUTE ENV+ On-line SPE Cartridges

ISOLUTE® 101 SPE Columns

Part Number	Description	Qty.
101-0002-A	ISOLUTE 101 25 mg/1 mL	100
101-0010-B	ISOLUTE 101 100 mg/3 mL	50
101-0020-B	ISOLUTE 101 200 mg/3 mL	50
101-0020-C	ISOLUTE 101 200 mg/6 mL	30
101-0050-B	ISOLUTE 101 500 mg/3 mL	50
101-0050-C	ISOLUTE 101 500 mg/6 mL	30

Support Documents for ISOLUTE® 101

TN119: Method Development in Solid Phase Extraction using ISOLUTE 101 SPE Columns for the Extraction of Aqueous Samples



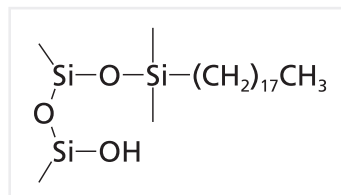
3 mL ISOLUTE® 101 Column



1 mL ISOLUTE® ENV+ Column

*Tabless columns for use with PRESSURE+ Positive Pressure Manifolds and other automated SPE systems. Other tabless columns are available, contact Biotage for details.

ISOLUTE® C18



Chemical structure of C18 Octadecyl (non-encapped) silane covalently bonded to the surface of a silica particle

Average particle size	50 µm
Pore diameter	60 Å
Sorbent Type	Non-Polar

Application: Most commonly used C18 sorbent for the extraction of acidic, neutral and basic compounds from aqueous matrices. Secondary silanol or ionic interactions can be used to enhance extract purity and method robustness for basic compounds.

ISOLUTE® C18 SPE Columns

Part Number	Description	Qty.
220-0002-A	ISOLUTE C18 25 mg/1 mL	100
220-0005-A	ISOLUTE C18 50 mg/1 mL	100
220-0010-A	ISOLUTE C18 100 mg/1 mL	100
220-0010-AGA	ISOLUTE C18 100 mg/1 mL (Tabless, ASPEC Adaptor)	100
220-0010-B	ISOLUTE C18 100 mg/3 mL	50
220-0010-BG	ISOLUTE C18 100 mg/3 mL (Tabless)*	50
220-0010-G	ISOLUTE C18 100 mg/10 mL	50
220-0020-B	ISOLUTE C18 200 mg/3 mL	50
220-0020-C	ISOLUTE C18 200 mg/6 mL	30
220-0020-H	ISOLUTE C18 200 mg/10 mL	50
220-0050-B	ISOLUTE C18 500 mg/3 mL	50
220-0050-BG	ISOLUTE C18 500 mg/3 mL (Tabless)*	50
220-0050-C	ISOLUTE C18 500 mg/6 mL	30
220-0050-CG	ISOLUTE C18 500 mg/6 mL (Tabless)*	30
220-0050-H	ISOLUTE C18 500 mg/10 mL	50
220-0100-B	ISOLUTE C18 1 g/3 mL	50
220-0100-C	ISOLUTE C18 1 g/6 mL	30
220-0100-CG	ISOLUTE C18 1 g/6 mL (Tabless)*	30
220-0200-C	ISOLUTE C18 2 g/6 mL	30
220-0200-D	ISOLUTE C18 2 g/15 mL	20
220-0500-E	ISOLUTE C18 5 g/25 mL	20
220-1000-F	ISOLUTE C18 10 g/70 mL	16
220-2000-F	ISOLUTE C18 20 g/70 mL	16

ISOLUTE®-96 C18 Fixed Well Plates

Part Number	Description	Qty.
220-0025-P01	ISOLUTE-96 C18 25 mg plate	1
220-0050-P01	ISOLUTE-96 C18 50 mg plate	1
220-0100-P01	ISOLUTE-96 C18 100 mg plate	1

Also available in bulk sorbent, see page 54.

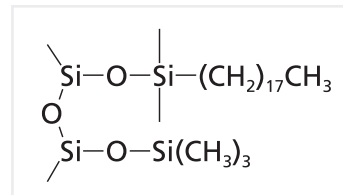
Support Documents for ISOLUTE® C18

TN101: Method Development in Solid Phase Extraction using Non-polar ISOLUTE® SPE Columns for the Extraction of Aqueous Samples

TN112: General Approach to the Extraction of Basic Drugs from Biological Fluids using Non-polar Non-encapped Sorbents

TN126: Method Development in Solid Phase Extraction using Non-polar ISOLUTE® SPE Columns for the Extraction of Drugs from Biological Fluid Samples

ISOLUTE® C18(EC)



Chemical structure of C18 Octadecyl (endcapped) silane and trimethyl silyl group covalently bonded to the surface of a silica particle

Average particle size	50 µm
Pore diameter	60 Å
Sorbent Type	Non-Polar

Application: Extraction of polar compounds from aqueous sample matrices.

ISOLUTE® C18(EC) SPE Columns

Part Number	Description	Qty.
221-0002-A	ISOLUTE C18(EC) 25 mg/1 mL	100
221-0005-A	ISOLUTE C18(EC) 50 mg/1 mL	100
221-0010-A	ISOLUTE C18(EC) 100 mg/1 mL	100
221-0010-B	ISOLUTE C18(EC) 100 mg/3 mL	50
221-0010-C	ISOLUTE C18(EC) 100 mg/6 mL	30
221-0010-G	ISOLUTE C18(EC) 100 mg/10 mL	50
221-0020-B	ISOLUTE C18(EC) 200 mg/3 mL	50
221-0020-C	ISOLUTE C18(EC) 200 mg/6 mL	30
221-0020-H	ISOLUTE C18(EC) 200 mg/10 mL	50
221-0050-B	ISOLUTE C18(EC) 500 mg/3 mL	50
221-0050-C	ISOLUTE C18(EC) 500 mg/6 mL	30
221-0050-CD	ISOLUTE C18(EC) 500 mg/6 mL (Depth filter)	30
221-0050-H	ISOLUTE C18(EC) 500 mg/10 mL	50
221-0100-B	ISOLUTE C18(EC) 1 g/3 mL	50
221-0100-C	ISOLUTE C18(EC) 1 g/6 mL	30
221-0100-CD	ISOLUTE C18(EC) 1 g/6 mL (Depth filter)	30
221-0100-L	ISOLUTE C18(EC) 1 g/6 mL (Glass)	30
221-0200-C	ISOLUTE C18(EC) 2 g/6 mL	30
221-0200-D	ISOLUTE C18(EC) 2 g/15 mL	20
221-0500-E	ISOLUTE C18(EC) 5 g/25 mL	20
221-1000-F	ISOLUTE C18(EC) 10 g/70 mL	16

ISOLUTE®-96 C18(EC) Fixed Well Plates

Part Number	Description	Qty.
221-0025-P01	ISOLUTE-96 C18(EC) 25 mg plate	1
221-0050-P01	ISOLUTE-96 C18(EC) 50 mg plate	1
221-0100-P01	ISOLUTE-96 C18(EC) 100 mg plate	1

Also available in bulk sorbent, see page 54.

Support Documents for ISOLUTE® C18(EC)

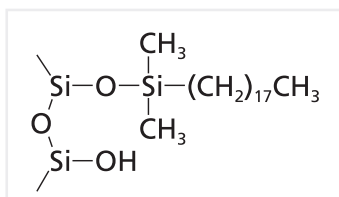
TN101: Method Development in Solid Phase Extraction using Non-polar ISOLUTE® SPE Columns for the Extraction of Aqueous Samples



3 mL ISOLUTE® C18(EC) Column

*Tabless columns for use with PRESSURE+ Positive Pressure Manifolds and other automated SPE systems. Other tabless columns are available, contact Biotage for details.

ISOLUTE® MFC18



Chemical structure of monofunctional C18 silane covalently bonded to the surface of a silica particle

Average particle size	50 µm
Pore diameter	125 Å
Sorbent Type	Non-Polar

Application: Extraction from aqueous matrix using both non-polar interactions (for acidic, neutral and basic compounds) and readily accessible secondary silanol or ionic interactions (for basic compounds only). Not the ideal choice when working at extreme pH, C18 is the preferred option for these methods.

ISOLUTE® MFC18 SPE Columns

Part Number	Description	Qty.
240-0002-A	ISOLUTE MFC18 25 mg/1 mL	100
240-0005-A	ISOLUTE MFC18 50 mg/1 mL	100
240-0005-AA	ISOLUTE MFC18 50 mg/1 mL (ASPEC Adaptor)	100
240-0005-G	ISOLUTE MFC18 50 mg/10 mL	50
240-0010-A	ISOLUTE MFC18 100 mg/1 mL	100
240-0010-B	ISOLUTE MFC18 100 mg/3 mL	50
240-0010-G	ISOLUTE MFC18 100 mg/10 mL	50
240-0050-B	ISOLUTE MFC18 500 mg/3 mL	50
240-0050-C	ISOLUTE MFC18 500 mg/6 mL	30
240-0050-H	ISOLUTE MFC18 500 mg/10 mL	50
240-0100-C	ISOLUTE MFC18 1 g/6 mL	30
240-0200-D	ISOLUTE MFC18 2 g/15 mL	20

ISOLUTE®-96 MFC18 Fixed Well Plates

Part Number	Description	Qty.
240-0025-P01	ISOLUTE-96 MFC18 25 mg plate	1

Also available in bulk sorbent, see page 54.

Support Documents for ISOLUTE® MFC18

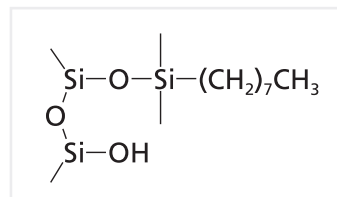
TN101: Method Development in Solid Phase Extraction using Non-polar ISOLUTE® SPE Columns for the Extraction of Aqueous Samples

TN112: General Approach to the Extraction of Basic Drugs from Biological Fluids using Non-polar Non-encapped Sorbents



6 mL ISOLUTE® MF C18 Column

ISOLUTE® C8



Chemical structure of C8 silane covalently bonded to the surface of a silica particle

Average particle size	50 µm
Pore diameter	60 Å
Sorbent Type	Non-Polar

Application: Most commonly used C8 sorbent for the extraction of acidic, neutral and basic compounds from aqueous matrices. Secondary silanol or ionic interactions can be used to enhance extract purity and method robustness for basic compounds.

ISOLUTE® C8 SPE Columns

Part Number	Description	Qty.
290-0002-A	ISOLUTE C8 25 mg/1 mL	100
290-0005-A	ISOLUTE C8 50 mg/1 mL	100
290-0010-A	ISOLUTE C8 100 mg/1 mL	100
290-0010-B	ISOLUTE C8 100 mg/3 mL	50
290-0010-BA	ISOLUTE C8 100 mg/3 mL (ASPEC Adaptor)	50
290-0010-C	ISOLUTE C8 100 mg/6 mL	30
290-0020-B	ISOLUTE C8 200 mg/3 mL	50
290-0020-C	ISOLUTE C8 200 mg/6 mL	30
290-0020-H	ISOLUTE C8 200 mg/10 mL	50
290-0050-B	ISOLUTE C8 500 mg/3 mL	50
290-0100-B	ISOLUTE C8 1 g/3 mL	50
290-0100-C	ISOLUTE C8 1 g/6 mL	30

ISOLUTE®-96 C8 Fixed Well Plates

Part Number	Description	Qty.
290-0025-P01	ISOLUTE-96 C8 25 mg plate	1
290-0050-P01	ISOLUTE-96 C8 50 mg plate	1
290-0100-P01	ISOLUTE-96 C8 100 mg plate	1

Also available in bulk sorbent, see page 54.

Support Documents for ISOLUTE® C8

TN101: Method Development in Solid Phase Extraction using Non-polar ISOLUTE® SPE Columns for the Extraction of Aqueous Samples

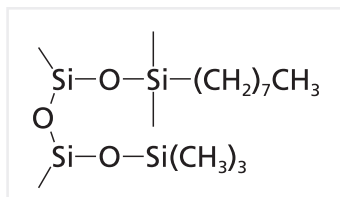
TN112: General Approach to the Extraction of Basic Drugs from Biological Fluids using Non-polar Non-encapped Sorbents

TN126: Method Development in Solid Phase Extraction using Non-polar ISOLUTE® SPE Columns for the Extraction of Biological Fluid Samples



1 mL ISOLUTE® C8 Column

ISOLUTE® C8(EC)

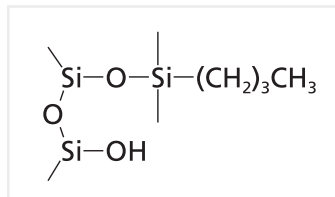


Chemical structure of C8 silane and trimethyl silyl group covalently bonded to the surface of a silica particle

Average particle size	50 µm
Pore diameter	60 Å
Sorbent Type	Non-Polar

Application: Extraction from aqueous matrix using non-polar interactions (for acidic, neutral and basic compounds).

ISOLUTE® C4



Chemical structure of C4 silane covalently bonded to the surface of a silica particle

Average particle size	50 µm
Pore diameter	60 Å
Sorbent Type	Non-Polar

Application: Extraction from aqueous matrix using non-polar interactions (for acidic, neutral and basic compounds). Secondary silanol or ionic interactions can be used to enhance extract purity and method robustness for basic compounds.

ISOLUTE® C8(EC) SPE Columns

Part Number	Description	Qty.
291-0002-A	ISOLUTE C8(EC) 25 mg/1 mL	100
291-0010-A	ISOLUTE C8(EC) 100 mg/1 mL	100
291-0010-B	ISOLUTE C8(EC) 100 mg/3 mL	50
291-0020-B	ISOLUTE C8(EC) 200 mg/3 mL	50
291-0050-B	ISOLUTE C8(EC) 500 mg/3 mL	50
291-0050-C	ISOLUTE C8(EC) 500 mg/6 mL	30
291-0100-B	ISOLUTE C8(EC) 1 g/3 mL	50
291-0100-C	ISOLUTE C8(EC) 1 g/6 mL	30

Also available in bulk sorbent, see page 54.

Support Documents for ISOLUTE® C8(EC)

TN101: Method Development in Solid Phase Extraction using Non-polar ISOLUTE® SPE Columns for the Extraction of Aqueous Samples



3 mL ISOLUTE® C8(EC) Column

ISOLUTE® C4 SPE Columns

Part Number	Description	Qty.
390-0010-A	ISOLUTE C4 100 mg/1 mL	100
390-0010-B	ISOLUTE C4 100 mg/3 mL	50
390-0020-B	ISOLUTE C4 200 mg/3 mL	50
390-0050-C	ISOLUTE C4 500 mg/6 mL	30

Support Documents for ISOLUTE® C4

TN101: Method Development in Solid Phase Extraction using Non-polar ISOLUTE® SPE Columns for the Extraction of Aqueous Samples

TN112: General Approach to the Extraction of Basic Drugs from Biological Fluids using Non-polar Non-encapped Sorbents

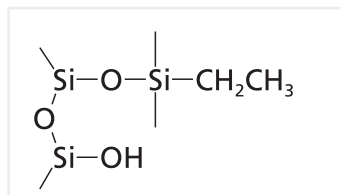


6 mL ISOLUTE® C4 Column

ISOLUTE®

SPE Columns and Plates

ISOLUTE® C2



Chemical structure of C2 silane covalently bonded to the surface of a silica particle

Average particle size	50 µm
Pore diameter	60 Å
Sorbent Type	Non-Polar

Application: Most commonly used C2 sorbent for the extraction of acidic, neutral and basic compounds from aqueous matrices. Secondary silanol or ionic interactions can be used to enhance extract purity and method robustness for basic compounds.

ISOLUTE® C2 SPE Columns

Part Number	Description	Qty.
320-0002-A	ISOLUTE C2 25 mg/1 mL	100
320-0005-A	ISOLUTE C2 50 mg/1 mL	100
320-0010-A	ISOLUTE C2 100 mg/1 mL	100
320-0010-B	ISOLUTE C2 100 mg/3 mL	50
320-0010-G	ISOLUTE C2 100 mg/10 mL	50
320-0050-B	ISOLUTE C2 500 mg/3 mL	50

ISOLUTE®-96 C2 Fixed Well Plates

Part Number	Description	Qty.
320-0025-P01	ISOLUTE-96 C2 25 mg plate	1
320-0100-P01	ISOLUTE-96 C2 100 mg plate	1

Also available in bulk sorbent, see page 54.

Support Documents for ISOLUTE® C2

TN101: Method Development in Solid Phase Extraction using Non-polar ISOLUTE® SPE Columns for the Extraction of Aqueous Samples

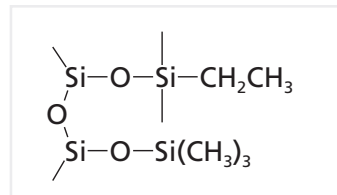
TN112: General Approach to the Extraction of Basic Drugs from Biological Fluids using Non-polar Non-encapped Sorbents

TN126: Method Development in Solid Phase Extraction using Non-polar ISOLUTE® SPE Columns for the Extraction of Biological Fluid Samples



1 mL ISOLUTE® C2 Column

ISOLUTE® C2(EC)



Chemical structure of C2 silane and trimethyl silyl group covalently bonded to the surface of a silica particle

Average particle size	50 µm
Pore diameter	60 Å
Sorbent Type	Non-Polar

Application: Extraction from aqueous matrix using non-polar interactions (for acidic, neutral and basic compounds).

ISOLUTE® C2(EC) SPE Columns

Part Number	Description	Qty.
321-0002-A	ISOLUTE C2(EC) 25 mg/1 mL	100
321-0010-B	ISOLUTE C2(EC) 100 mg/3 mL	50
321-0020-B	ISOLUTE C2(EC) 200 mg/3 mL	50
321-0050-B	ISOLUTE C2(EC) 500 mg/3 mL	50

ISOLUTE®-96 C2(EC) Fixed Well Plates

Part Number	Description	Qty.
321-0025-P01	ISOLUTE-96 C2(EC) 25 mg plate	1

Also available in bulk sorbent, see page 54.

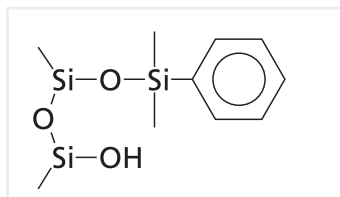
Support Documents for ISOLUTE® C2(EC)

TN101: Method Development in Solid Phase Extraction using Non-polar ISOLUTE® SPE Columns for the Extraction of Aqueous Samples



3 mL ISOLUTE® C2(EC) Column

ISOLUTE® PH



Chemical structure of phenyl silane covalently bonded to the surface of a silica particle

Average particle size	50 µm
Pore diameter	60 Å
Sorbent Type	Non-Polar

Application: Extraction from aqueous matrix using both non-polar interactions (for acidic, neutral and basic compounds) and secondary silanol or ionic interactions (for basic compounds only). This sorbent exhibits a different selectivity compared with C18 and C8 phases when both aromatic and non-aromatic compounds are being extracted.

ISOLUTE® PH SPE Columns

Part Number	Description	Qty.
360-0002-A	ISOLUTE PH 25 mg/1 mL	100
360-0010-B	ISOLUTE PH 100 mg/3 mL	50
360-0050-B	ISOLUTE PH 500 mg/3 mL	50
360-0050-C	ISOLUTE PH 500 mg/6 mL	30

ISOLUTE®-96 PH Fixed Well Plates

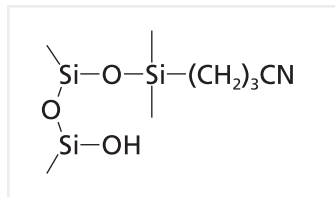
Part Number	Description	Qty.
360-0025-P01	ISOLUTE-96 PH 25 mg plate	1
360-0050-P01	ISOLUTE-96 PH 50 mg plate	1
360-0100-P01	ISOLUTE-96 PH 100 mg plate	1

Support Documents for ISOLUTE® PH

TN101: Method Development in Solid Phase Extraction using Non-polar ISOLUTE® SPE Columns for the Extraction of Aqueous Samples

TN112: General Approach to the Extraction of Basic Drugs from Biological Fluids using Non-polar Non-encapped Sorbents

ISOLUTE® CN



Chemical structure of cyanopropyl silane covalently bonded to the surface of a silica particle

Average particle size	50 µm
Pore diameter	60 Å
Sorbent Type	Non-Polar

Application: Extraction from aqueous matrix using both non-polar interactions (for acidic, neutral and basic compounds) and secondary silanol or ionic interactions (for basic compounds only). Can also be used in polar SPE mode.

ISOLUTE® CN SPE Columns

Part Number	Description	Qty.
420-0005-A	ISOLUTE CN 50 mg/1 mL	100
420-0050-B	ISOLUTE CN 500 mg/3 mL	50
420-0050-C	ISOLUTE CN 500 mg/6 mL	30
420-0100-C	ISOLUTE CN 1 g/6 mL	30

ISOLUTE®-96 CN Fixed Well Plates

Part Number	Description	Qty.
420-0100-P01	ISOLUTE-96 CN 100 mg plate	1

Support Documents for ISOLUTE® CN

TN101: Method Development in Solid Phase Extraction using Non-polar ISOLUTE® SPE Columns for the Extraction of Aqueous Samples

TN102: Method Development in Solid Phase Extraction using Polar ISOLUTE® SPE Columns for the Extraction of Non-aqueous Samples

TN112: General Approach to the Extraction of Basic Drugs from Biological Fluids using Non-polar Non-encapped Sorbents



6 mL ISOLUTE® PH Column

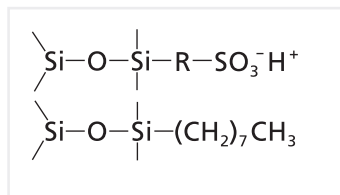


1 mL ISOLUTE® CN Column

ISOLUTE®

SPE Columns and Plates

ISOLUTE® HCX



ISOLUTE® HCX combines C8 (Octyl) and sulfonic acid functionalities

Average particle size	50 µm
Pore diameter	60 Å
Sorbent Type	Mixed-Mode

Application: The first choice sorbent for extracting drugs of abuse from biological fluid samples.

ISOLUTE® HCX SPE Columns

Part Number	Description	Qty.
902-0002-A	ISOLUTE HCX 25 mg/1 mL	100
902-0005-A	ISOLUTE HCX 50 mg/1 mL	100
902-0010-A	ISOLUTE HCX 100 mg/1 mL	100
902-0010-B	ISOLUTE HCX 100 mg/3 mL	50
902-0013-A	ISOLUTE HCX 130 mg/1 mL	100
902-0013-B	ISOLUTE HCX 130 mg/3 mL	50
902-0013-C	ISOLUTE HCX 130 mg/6 mL	30
902-0013-H	ISOLUTE HCX 130 mg/10 mL	50
902-0020-B	ISOLUTE HCX 200 mg/3 mL	50
902-0020-H	ISOLUTE HCX 200 mg/10 mL	50
902-0030-B	ISOLUTE HCX 300 mg/3 mL	50
902-0030-C	ISOLUTE HCX 300 mg/6 mL	30
902-0030-H	ISOLUTE HCX 300 mg/10 mL	50
902-0050-C	ISOLUTE HCX 500 mg/6 mL	30

ISOLUTE®-96 HCX Fixed Well Plates

Part Number	Description	Qty.
902-0025-P01	ISOLUTE-96 HCX 25 mg plate	1
902-0100-P01	ISOLUTE-96 HCX 100 mg plate	1

Support Documents for ISOLUTE® HCX

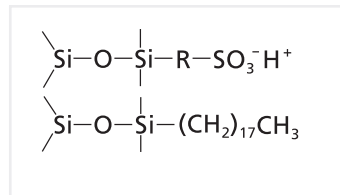
TN116: Generic Method for the Extraction of Basic Drugs from Biological Fluids using ISOLUTE® Mixed-mode SPE Columns and 96-well Plates

TN125: Method Development in Solid Phase Extraction using ISOLUTE® HCX for the Extraction of Drugs from Biological Fluid Samples



3 mL ISOLUTE® HCX Column

ISOLUTE® HCX-3



ISOLUTE® HCX-3 combines C18 (Octadecyl) and sulfonic acid functionalities

Average particle size	50 µm
Pore diameter	60 Å
Sorbent Type	Mixed-Mode

Application: Extraction of basic analytes from aqueous matrix using dual non-polar and strong cation exchange interactions. A good alternative to HCX for basic compounds that require more retentive non-polar character from the mixed-mode sorbent.

ISOLUTE® HCX-3 SPE Columns

Part Number	Description	Qty.
905-0002-A	ISOLUTE HCX-3 25 mg/1 mL	100
905-0010-A	ISOLUTE HCX-3 100 mg/1 mL	100

ISOLUTE®-96 HCX-3 Fixed Well Plates

Part Number	Description	Qty.
905-0025-P01	ISOLUTE-96 HCX-3 25 mg plate	1
905-0050-P01	ISOLUTE-96 HCX-3 50 mg plate	1
905-0100-P01	ISOLUTE-96 HCX-3 100 mg plate	1

Also available in bulk sorbent, see page 54.

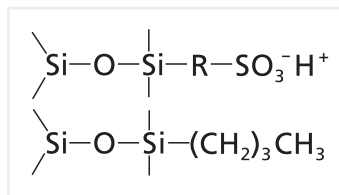
Support Documents for ISOLUTE® HCX-3

TN116: Generic Method for the Extraction of Basic Drugs from Biological Fluids using ISOLUTE® Mixed-mode SPE Columns and 96-well Plates



1 mL ISOLUTE® HCX-3 Column

ISOLUTE® HCX-5



ISOLUTE® HCX-5 combines C4 (Butyl) and sulfonic acid functionalities

Average particle size	50 µm
Pore diameter	60 Å
Sorbent Type	Mixed-Mode

Application: HCX-5 provides the cleanest extract of all the mixed-mode sorbents. Ideal choice where the basic analyte to be extracted has sufficient non-polar character to be well retained by the C4 non-polar component of the mixed-mode sorbent.

ISOLUTE® HCX-5 SPE Columns

Part Number	Description	Qty.
906-0002-A	ISOLUTE HCX-5 25 mg/1 mL	100
906-0010-A	ISOLUTE HCX-5 100 mg/1 mL	100
906-0010-G	ISOLUTE HCX-5 100 mg/10 mL	50
906-0013-H	ISOLUTE HCX-5 130 mg/10 mL	50

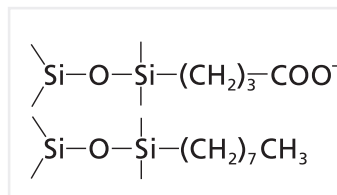
Support Documents for ISOLUTE® HCX-5

TN116: Generic Method for the Extraction of Basic Drugs from Biological Fluids using ISOLUTE® Mixed-mode SPE Columns and 96-well Plates



10 mL (3 mL XL) ISOLUTE® HCX-5 Column

ISOLUTE® HCX-Q



ISOLUTE® HCX-Q combines C8 (Octyl) and carboxylic acid functionalities

Average particle size	50 µm
Pore diameter	60 Å
Sorbent Type	Mixed-Mode

Application: Extraction of quaternary amine and polybasic analytes from aqueous matrix using dual non-polar and weak cation exchange interactions.

ISOLUTE® HCX-Q SPE Columns

Part Number	Description	Qty.
986-0002-A	ISOLUTE HCX-Q 25 mg/1 mL	100
986-0005-A	ISOLUTE HCX-Q 50 mg/1 mL	100
986-0010-A	ISOLUTE HCX-Q 100 mg/1 mL	100

ISOLUTE®-96 HCX-Q Fixed Well Plates

Part Number	Description	Qty.
986-0025-P01	ISOLUTE-96 HCX-Q 25 mg plate	1
986-0100-P01	ISOLUTE-96 HCX-Q 100 mg plate	1

Support Documents for ISOLUTE® HCX-Q

TN129: Generic Method for the Extraction of Quaternary Amine and Polybasic Drugs from Biological Fluids using ISOLUTE® HCX-Q SPE Columns and 96-well Plates

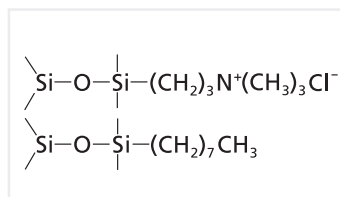


1 mL ISOLUTE® HCX-Q Column

ISOLUTE®

SPE Columns and Plates

ISOLUTE® HAX



ISOLUTE® HAX combines C8 (Octyl) and quaternary amine functionalities

Average particle size	50 µm
Pore diameter	60 Å
Sorbent Type	Mixed-Mode

Application: Extraction of acidic analytes from aqueous matrix using dual non-polar and strong anion exchange interactions. Suitable for a broad range of acidic compounds.

ISOLUTE® HAX SPE Columns

Part Number	Description	Qty.
903-0002-A	ISOLUTE HAX 25 mg/1 mL	100
903-0005-AG	ISOLUTE HAX 50 mg/1 mL (Tablets)	100
903-0010-A	ISOLUTE HAX 100 mg/1 mL	100
903-0020-B	ISOLUTE HAX 200 mg/3 mL	50
903-0020-C	ISOLUTE HAX 200 mg/6 mL	30
903-0020-H	ISOLUTE HAX 200 mg/10 mL	50
903-0050-B	ISOLUTE HAX 500 mg/3 mL	50
903-0100-C	ISOLUTE HAX 1 g/6 mL	30

ISOLUTE®-96 HAX Fixed Well Plates

Part Number	Description	Qty.
903-0025-P01	ISOLUTE-96 HAX 25 mg plate	1

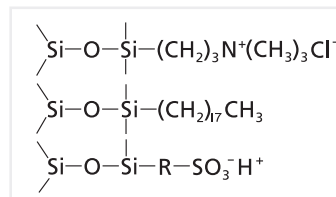
Support Documents for ISOLUTE® HAX

TN127: Method Development in Solid Phase Extraction using ISOLUTE® HAX for the Extraction of Drugs from Biological Fluid Samples



3 mL ISOLUTE® HAX Column

ISOLUTE® Multimode



ISOLUTE® Multimode combines C18 (Octadecyl), quaternary amine and sulfonic acid functionalities

Average particle size	50 µm
Pore diameter	60 Å
Sorbent Type	Mixed-Mode

Application: Isolation of small neutral highly water soluble species from complex mixtures.

ISOLUTE® Multimode SPE Columns

Part Number	Description	Qty.
904-0010-A	ISOLUTE Multimode 100 mg/1 mL	100
904-0030-B	ISOLUTE Multimode 300 mg/3 mL	50
904-0030-C	ISOLUTE Multimode 300 mg/6 mL	30
904-0030-H	ISOLUTE Multimode 300 mg/10 mL	50
904-0050-B	ISOLUTE Multimode 500 mg/3 mL	50
904-0100-C	ISOLUTE Multimode 1 g/6 mL	30

ISOLUTE®-96 Multimode Fixed Well Plates

Part Number	Description	Qty.
904-0100-P01	ISOLUTE-96 Multimode 100 mg plate	1

Also available in bulk sorbent, see page 54.

Support Documents for ISOLUTE® Multimode

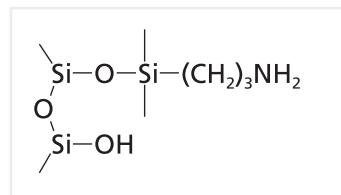
IST1022: Extraction of Aflatoxins from Cereals

IST1076: Extraction of Acrylamide from Cooked Foodstuffs



1 mL ISOLUTE® Multimode Column

ISOLUTE® NH2



Chemical structure of NH2 aminopropyl silane covalently bonded to the surface of a silica particle

Average particle size	50 µm
Pore diameter	60 Å
Sorbent Type	Weak anion exchange (pK _a 9.8) or polar
Exchange capacity	0.6 meq/g

Application: Extraction of strong acids and polyacidic compounds from aqueous sample matrix. Analyte elution can be performed by neutralizing charge on the sorbent. Sorbent supplied as the free base.

Alternatively, ISOLUTE® NH2 can be used for extraction of polar compounds from a non-polar matrix using hydrogen bonding retention mechanism. Less retentive than SI.

ISOLUTE® NH2 SPE Columns

Part Number	Description	Qty.
470-0002-A	ISOLUTE NH2 25 mg/1 mL	100
470-0005-A	ISOLUTE NH2 50 mg/1 mL	100
470-0005-G	ISOLUTE NH2 50 mg/10 mL	50
470-0010-A	ISOLUTE NH2 100 mg/1 mL	100
470-0010-AG	ISOLUTE NH2 100 mg/1 mL (Tabless)	100
470-0010-B	ISOLUTE NH2 100 mg/3 mL	50
470-0010-C	ISOLUTE NH2 100 mg/6 mL	30
470-0010-G	ISOLUTE NH2 100 mg/10 mL	50
470-0020-B	ISOLUTE NH2 200 mg/3 mL	50
470-0050-B	ISOLUTE NH2 500 mg/3 mL	50
470-0050-C	ISOLUTE NH2 500 mg/6 mL	30
470-0050-H	ISOLUTE NH2 500 mg/10 mL	50
470-0100-C	ISOLUTE NH2 1 g/6 mL	30
470-0100-CG	ISOLUTE NH2 1 g/6 mL (Tabless)*	30
470-0200-C	ISOLUTE NH2 2 g/6 mL	30
470-0200-D	ISOLUTE NH2 2 g/15 mL	20
470-0500-E	ISOLUTE NH2 5 g/25 mL	20

ISOLUTE®-96 NH2 Fixed Well Plates

Part Number	Description	Qty.
470-0100-P01	ISOLUTE-96 NH2 100 mg plate	1

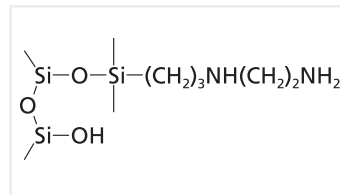
Also available in bulk sorbent, see page 54.

Support Documents for ISOLUTE® NH2

TN102: Method Development in Solid Phase Extraction using Polar ISOLUTE® SPE Columns for the Extraction of Non-aqueous Samples

TN104: Method Development in Solid Phase Extraction using ISOLUTE® NH2 SPE Columns for the Extraction of Aqueous Samples

ISOLUTE® PSA



Chemical structure of PSA ethylenediamine-n-propyl silane covalently bonded to the surface of a silica particle

Average particle size	50 µm
Pore diameter	60 Å
Sorbent Type	Weak anion exchange (pK _a 10.1 and 10.9) or polar
Exchange capacity	0.4 meq/g

Application: ISOLUTE® PSA can be used to extract strong acids and polyacidic compound from aqueous sample matrix. Analyte elution can be achieved by neutralizing the charge on the sorbent. Sorbent will complex with certain metal ions. Supplied as free base.

Alternatively, ISOLUTE® PSA can be used for extraction of polar compounds from a non-polar matrix using a hydrogen bonding retention mechanism. Less retentive than silica when used in this mode.

ISOLUTE® PSA SPE Columns

Part Number	Description	Qty.
480-0020-B	ISOLUTE PSA 200 mg/3 mL	50
480-0050-B	ISOLUTE PSA 500 mg/3 mL	50
480-0050-C	ISOLUTE PSA 500 mg/6 mL	30
480-0050-H	ISOLUTE PSA 500 mg/10 mL	50
480-0100-C	ISOLUTE PSA 1 g/6 mL	30

Also available in bulk sorbent, see page 54.

Support Documents for ISOLUTE® PSA

TN102: Method Development in Solid Phase Extraction using Polar ISOLUTE® SPE Columns for the Extraction of Non-aqueous Samples

TN105: Method Development in Solid Phase Extraction using ISOLUTE® PSA SPE Columns for the Extraction of Aqueous Samples



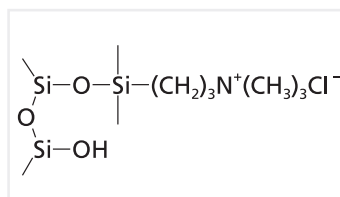
6 mL ISOLUTE® PSA Column

*Tabless columns for use with PRESSURE+ Positive Pressure Manifolds and other automated SPE systems. Other tabless columns are available, contact Biotage for details.

ISOLUTE®

SPE Columns and Plates

ISOLUTE® SAX



Chemical structure of SAX quaternary amine silane covalently bonded to the surface of a silica particle

Average particle size	50 µm
Pore diameter	60 Å
Sorbent Type	Strong anion exchange
Exchange capacity	0.6 meq/g

Application: Extraction of acidic analytes from aqueous sample matrix. Supplied with chloride counter ion.

ISOLUTE® SAX SPE Columns

Part Number	Description	Qty.
500-0002-A	ISOLUTE SAX 25 mg/1 mL	100
500-0005-A	ISOLUTE SAX 50 mg/1 mL	100
500-0010-A	ISOLUTE SAX 100 mg/1 mL	100
500-0010-B	ISOLUTE SAX 100 mg/3 mL	50
500-0010-C	ISOLUTE SAX 100 mg/6 mL	30
500-0020-B	ISOLUTE SAX 200 mg/3 mL	50
500-0050-B	ISOLUTE SAX 500 mg/3 mL	50
500-0050-C	ISOLUTE SAX 500 mg/6 mL	30
500-0050-H	ISOLUTE SAX 500 mg/10 mL	50
500-0100-B	ISOLUTE SAX 1 g/3 mL	50
500-0100-C	ISOLUTE SAX 1 g/6 mL	30
500-0200-D	ISOLUTE SAX 2 g/15 mL	20
500-0500-E	ISOLUTE SAX 5 g/25 mL	20

ISOLUTE-96 SAX Fixed Well Plates

Part Number	Description	Qty.
500-0025-P01	ISOLUTE-96 SAX 25 mg plate	1
500-0050-P01	ISOLUTE-96 SAX 50 mg plate	1
500-0100-P01	ISOLUTE-96 SAX 100 mg plate	1

Also available in bulk sorbent, see page 54.

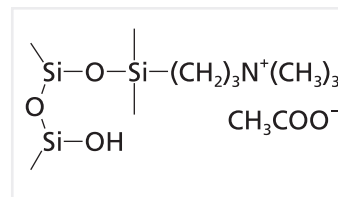
Support Documents for ISOLUTE® SAX

TN103: Method Development in Solid Phase Extraction using ISOLUTE® PE-AX and SAX SPE Columns for the Extraction of Aqueous Samples



1 mL ISOLUTE® SAX Column

ISOLUTE® PE-AX



Chemical structure of PE-AX quaternary amine silane covalently bonded to the surface of a silica particle

Average particle size	50 µm
Pore diameter	60 Å
Sorbent Type	Strong anion exchange
Exchange capacity	0.6 meq/g

Application: Extraction of acidic analytes from aqueous sample matrix. Supplied with acetate counter ion for more efficient extraction of acidic analytes including those with polar/water soluble characteristics.

ISOLUTE® PE-AX SPE Columns

Part Number	Description	Qty.
503-0002-A	ISOLUTE PE-AX 25 mg/1 mL	100
503-0010-A	ISOLUTE PE-AX 100 mg/1 mL	100
503-0010-B	ISOLUTE PE-AX 100 mg/3 mL	50
503-0010-C	ISOLUTE PE-AX 100 mg/6 mL	30
503-0020-B	ISOLUTE PE-AX 200 mg/3 mL	50
503-0050-B	ISOLUTE PE-AX 500 mg/3 mL	50
503-0050-C	ISOLUTE PE-AX 500 mg/6 mL	30
503-0100-C	ISOLUTE PE-AX 1 g/6 mL	30

Also available in bulk sorbent, see page 54.

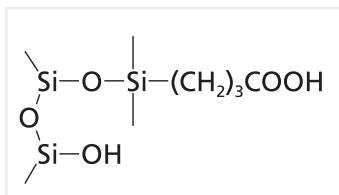
Support Documents for ISOLUTE® PE-AX

TN103: Method Development in Solid Phase Extraction using ISOLUTE® PE-AX and SAX SPE Columns for the Extraction of Aqueous Samples



3 mL ISOLUTE® PE-AX Column

ISOLUTE® CBA



Chemical structure of CBA silane covalently bonded to the surface of a silica particle

Average particle size	50 µm
Pore diameter	60 Å
Sorbent Type	Weak cation exchange (pK _a 4.8) or polar
Exchange capacity	0.6 meq/g

Application: Extraction of strong bases and polybasic compounds from aqueous sample matrix. Analyte elution can be performed by neutralizing charge on the sorbent.

ISOLUTE® CBA SPE Columns

Part Number	Description	Qty.
520-0002-A	ISOLUTE CBA 25 mg/1 mL	100
520-0005-A	ISOLUTE CBA 50 mg/1 mL	100
520-0010-A	ISOLUTE CBA 100 mg/1 mL	100
520-0010-B	ISOLUTE CBA 100 mg/3 mL	50
520-0010-C	ISOLUTE CBA 100 mg/6 mL	30
520-0020-B	ISOLUTE CBA 200 mg/3 mL	50
520-0050-B	ISOLUTE CBA 500 mg/3 mL	50
520-0050-C	ISOLUTE CBA 500 mg/6 mL	30
520-0050-H	ISOLUTE CBA 500 mg/10 mL	50
520-0100-C	ISOLUTE CBA 1 g/6 mL	30
520-0200-D	ISOLUTE CBA 2 g/15 mL	20

ISOLUTE®-96 CBA Fixed Well Plates

Part Number	Description	Qty.
520-0025-P01	ISOLUTE-96 CBA 25 mg plate	1
520-0050-P01	ISOLUTE-96 CBA 50 mg plate	1
520-0100-P01	ISOLUTE-96 CBA 100 mg plate	1

Also available in bulk sorbent, see page 54.

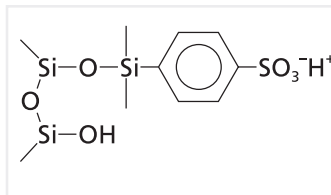
Support Documents for ISOLUTE® CBA

TN108: Method Development in Solid Phase Extraction using ISOLUTE® CBA SPE Columns for the Extraction of Aqueous Samples



6 mL ISOLUTE® CBA Column

ISOLUTE® SCX



Chemical structure of benzenesulfonic acid functional group covalently bonded to the surface of a silica particle

Average particle size	50 µm
Pore diameter	60 Å
Sorbent Type	Strong cation exchange
Exchange capacity	0.4 meq/g

Application: Extraction of basic analytes from aqueous or partially aqueous sample matrix. Supplied in the protonated form.

ISOLUTE® SCX SPE Columns

Part Number	Description	Qty.
530-0005-A	ISOLUTE SCX 50 mg/1 mL	100
530-0010-A	ISOLUTE SCX 100 mg/1 mL	100
530-0010-B	ISOLUTE SCX 100 mg/3 mL	50
530-0010-G	ISOLUTE SCX 100 mg/10 mL	50
530-0010-H	ISOLUTE SCX 100 mg/10 mL	50
530-0020-B	ISOLUTE SCX 200 mg/3 mL	50
530-0020-H	ISOLUTE SCX 200 mg/10 mL	50
530-0050-B	ISOLUTE SCX 500 mg/3 mL	50
530-0050-C	ISOLUTE SCX 500 mg/6 mL	30
530-0050-H	ISOLUTE SCX 500 mg/10 mL	50
530-0100-B	ISOLUTE SCX 1 g/3 mL	50
530-0100-C	ISOLUTE SCX 1 g/6 mL	30
530-0200-D	ISOLUTE SCX 2 g/15 mL	20
530-0500-E	ISOLUTE SCX 5 g/25 mL	20

ISOLUTE®-96 SCX Fixed Well Plates

Part Number	Description	Qty.
530-0025-P01	ISOLUTE-96 SCX 25 mg plate	1
530-0050-P01	ISOLUTE-96 SCX 50 mg plate	1

Also available in bulk sorbent, see page 54.

Support Documents for ISOLUTE® SCX

TN106: Method Development in Solid Phase Extraction using ISOLUTE® SCX and SCX-3 SPE Columns for the Extraction of Aqueous Samples

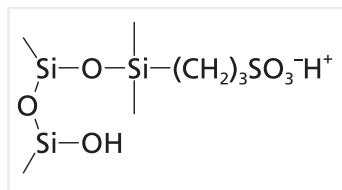


6 mL ISOLUTE® SCX Column

ISOLUTE®

SPE Columns and Plates

ISOLUTE® SCX-2



Chemical structure of propylsulfonic acid functional group covalently bonded to the surface of a silica particle

Average particle size	50 µm
Pore diameter	60 Å
Sorbent Type	Strong cation exchange
Exchange capacity	0.6 meq/g

Application: Extraction of basic analytes from aqueous or partially aqueous sample matrix. Supplied in the protonated form. Sorbent of choice if strong cation exchange is primary retention mechanism, or, if aqueous conditions required for analyte elution. For methods listing PRS as the SPE sorbent, SCX-2 is a direct replacement.

ISOLUTE® SCX-2 SPE Columns

Part Number	Description	Qty.
532-0002-A	ISOLUTE SCX-2 25 mg/1 mL	100
532-0005-A	ISOLUTE SCX-2 50 mg/1 mL	100
532-0010-A	ISOLUTE SCX-2 100 mg/1 mL	100
532-0010-B	ISOLUTE SCX-2 100 mg/3 mL	50
532-0020-A	ISOLUTE SCX-2 200 mg/1 mL	100
532-0020-B	ISOLUTE SCX-2 200 mg/3 mL	50
532-0050-B	ISOLUTE SCX-2 500 mg/3 mL	50
532-0050-BG	ISOLUTE SCX-2 500 mg/3 mL (Tabless)*	50
532-0050-C	ISOLUTE SCX-2 500 mg/6 mL	30
532-0050-H	ISOLUTE SCX-2 500 mg/10 mL	50
532-0100-B	ISOLUTE SCX-2 1 g/3 mL	50
532-0100-C	ISOLUTE SCX-2 1 g/6 mL	30
532-0200-C	ISOLUTE SCX-2 2 g/6 mL	30

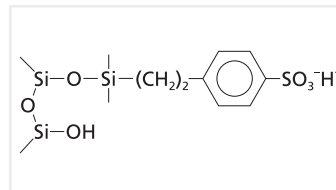
Support Documents for ISOLUTE® SCX-2

TN107: Method Development in Solid Phase Extraction using ISOLUTE® SCX-2 SPE Columns for the Extraction of Aqueous Samples



3 mL ISOLUTE® SCX-2 Column

ISOLUTE® SCX-3



Chemical structure of ethylbenzene sulfonic acid functional group covalently bonded to the surface of a silica particle

Average particle size	50 µm
Pore diameter	60 Å
Sorbent Type	Strong cation exchange
Exchange capacity	0.6 meq/g

Application: Extraction of basic analytes from aqueous or partially aqueous sample matrix. Supplied in the protonated form. Sorbent of choice where significant non-polar secondary interactions are required.

ISOLUTE® SCX-3 SPE Columns

Part Number	Description	Qty.
533-0002-A	ISOLUTE SCX-3 25 mg/1 mL	100
533-0005-A	ISOLUTE SCX-3 50 mg/1 mL	100
533-0010-A	ISOLUTE SCX-3 100 mg/1 mL	100
533-0010-B	ISOLUTE SCX-3 100 mg/3 mL	50
533-0020-B	ISOLUTE SCX-3 200 mg/3 mL	50
533-0050-B	ISOLUTE SCX-3 500 mg/3 mL	50
533-0050-C	ISOLUTE SCX-3 500 mg/6 mL	30
533-0100-C	ISOLUTE SCX-3 1 g/6 mL	30

ISOLUTE®-96 SCX-3 Fixed Well Plates

Part Number	Description	Qty.
533-0025-P01	ISOLUTE-96 SCX-3 25 mg plate	1
533-0050-P01	ISOLUTE-96 SCX-3 50 mg plate	1
533-0100-P01	ISOLUTE-96 SCX-3 100 mg plate	1

Support Documents for ISOLUTE® SCX-3

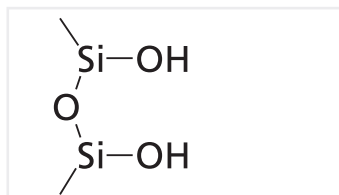
TN106: Method Development in Solid Phase Extraction using ISOLUTE® SCX and SCX-3 SPE Columns for the Extraction of Aqueous Samples



6 mL ISOLUTE® SCX-3 Column

*Tabless columns for use with PRESSURE+ Positive Pressure Manifolds and other automated SPE systems. Other tabless columns are available, contact Biotage for details.

ISOLUTE® SI



Chemical structure of silanol groups on the surface of a silica particle

Average particle size	50 µm
Pore diameter	60 Å
Sorbent Type	Polar
Nominal moisture content	7%

Application: Extraction of polar compounds from a non-polar sample matrix using hydrogen bonding retention mechanism.

ISOLUTE® SI SPE Columns

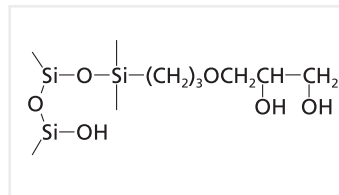
Part Number	Description	Qty.
460-0002-A	ISOLUTE SI 25 mg/1 mL	100
460-0005-A	ISOLUTE SI 50 mg/1 mL	100
460-0010-A	ISOLUTE SI 100 mg/1 mL	100
460-0010-B	ISOLUTE SI 100 mg/3 mL	50
460-0010-G	ISOLUTE SI 100 mg/10 mL	50
460-0020-B	ISOLUTE SI 200 mg/3 mL	50
460-0020-H	ISOLUTE SI 200 mg/10 mL	50
460-0050-B	ISOLUTE SI 500 mg/3 mL	50
460-0050-C	ISOLUTE SI 500 mg/6 mL	30
460-0050-L	ISOLUTE SI 500 mg/6 mL (Glass)	30
460-0050-H	ISOLUTE SI 500 mg/10 mL	50
460-0100-B	ISOLUTE SI 1 g/3 mL	50
460-0100-C	ISOLUTE SI 1 g/6 mL	30
460-0100-CG	ISOLUTE SI 1 g/6 mL (Tablets)*	30
460-0100-L	ISOLUTE SI 1 g/6 mL (Glass)	30
460-0100-D	ISOLUTE SI 1 g/15 mL	20
460-0200-C	ISOLUTE SI 2 g/6 mL	30
460-0200-L	ISOLUTE SI 2 g/6 mL (Glass)	30
460-0200-D	ISOLUTE SI 2 g/15 mL	20
460-0500-E	ISOLUTE SI 5 g/25 mL	20
460-1000-F	ISOLUTE SI 10 g/70 mL	16
460-2500-F	ISOLUTE SI 25 g/70 mL	16

Also available in bulk sorbent, see page 54.

Support Documents for ISOLUTE® SI

TN102: Method Development in Solid Phase Extraction using Polar ISOLUTE® SPE Columns for the Extraction of Non-aqueous Samples

ISOLUTE® DIOL



Chemical structure of DIOL silane covalently bonded to the surface of a silica particle

Average particle size	50 µm
Pore diameter	60 Å
Sorbent Type	Polar

Application: Extraction of polar compounds from a non-polar sample matrix using hydrogen bonding retention mechanism. Less retentive sorbent than SI. Can also be used as a non-polar sorbent with aqueous sample matrices.

ISOLUTE® DIOL SPE Columns

Part Number	Description	Qty.
430-0010-A	ISOLUTE DIOL 100 mg/1 mL	100
430-0010-B	ISOLUTE DIOL 100 mg/3 mL	50
430-0020-B	ISOLUTE DIOL 200 mg/3 mL	50
430-0050-B	ISOLUTE DIOL 500 mg/3 mL	50
430-0050-C	ISOLUTE DIOL 500 mg/6 mL	30
430-0050-H	ISOLUTE DIOL 500 mg/10 mL	50

Also available in bulk sorbent, see page 54.

Support Documents for ISOLUTE® DIOL

TN102: Method Development in Solid Phase Extraction using Polar ISOLUTE® SPE Columns for the Extraction of Non-aqueous Samples



3 mL ISOLUTE® DIOL Column

*Tablet columns for use with PRESSURE+ Positive Pressure Manifolds and other automated SPE systems. Other tablet columns are available, contact Biotage for details.

ISOLUTE® FL

Average particle size	150–250 µm
Pore diameter	60 Å
Nominal moisture content	<2%
Surface pH	8
Sorbent Type	Polar

Application: Extraction of polar compounds from a non-polar sample matrix. Alternative to silica based polar sorbents. Minimal retention of basic compounds. Activated for separation of chlorinated pesticides.

ISOLUTE® FL SPE Columns

Part Number	Description	Qty.
712-0010-B	ISOLUTE FL 100 mg/3 mL	50
712-0020-H	ISOLUTE FL 200 mg/10 mL	50
712-0010-A	ISOLUTE FL 100 mg/1 mL	100
712-0020-B	ISOLUTE FL 200 mg/3 mL	50
712-0050-B	ISOLUTE FL 500 mg/3 mL	50
712-0050-C	ISOLUTE FL 500 mg/6 mL	30
712-0050-H	ISOLUTE FL 500 mg/10 mL	50
712-0050-L	ISOLUTE FL 500 mg/6 mL (Glass)	30
712-0100-B	ISOLUTE FL 1 g/3 mL	50
712-0100-C	ISOLUTE FL 1 g/6 mL	30
712-0200-D	ISOLUTE FL 2 g/15 mL	20
712-0500-E	ISOLUTE FL 5 g/25 mL	20
712-2000-F	ISOLUTE FL 20 g/70 mL	16

Also available in bulk sorbent, see page 54.

Support Documents for ISOLUTE® FL

IST1080: Multi-residue Extraction and Clean up of Pesticides from Fruits and Vegetables

ISOLUTE® HM-N

Columns for Supported Liquid Extraction

Part Number	Description	Qty.
800-0040-BM	ISOLUTE HM-N (300 µL sample)	100
800-0040-BMG	ISOLUTE HM-N (300 µL sample) (Tablets)*	100
800-0100-CM	ISOLUTE HM-N (1 mL sample)	100
800-0220-DM	ISOLUTE HM-N (3 mL sample)	100
800-0350-EM	ISOLUTE HM-N (5 mL sample)	100
800-0700-FM	ISOLUTE HM-N (10 mL sample)	50
800-1300-FM	ISOLUTE HM-N (20 mL sample)	50

*Tablets columns for use with PRESSURE+ Positive Pressure Manifolds and other automated SPE systems. Other tablet columns are available, contact Biotage for details.

Also available in bulk sorbent, see page 54.



ISOLUTE® HM-N (1 mL sample)

ISOLUTE® Alumina

High activity, 50–200 µm particle size range alumina, available in acidic, neutral and basic surface pH options. The surface of the alumina can absorb molecules by interaction with the aluminum metal center, hydrogen bonding with surface hydroxyl groups, or by ion exchange if the surface carries a charge. The extent of these different interactions can be enhanced by control of the surface pH by treatment with acidic, basic or neutral solutions.

ISOLUTE® AL-A

Acid washing results in a surface with decreased capacity for basic compounds. Compounds are retained by ion exchange with the positively charged surface or by specific interactions with the metal center. ISOLUTE® AL-A has a nominal moisture content of <0.1% (Brockmann Activity I/Super 1 grade), and surface pH of 4.5.

ISOLUTE® AL-N

Neutral surface allows interactions of the aluminum metal center with compounds whose heteroatoms are electronegative (e.g. N, O, P & S) or whose highly aromatic structure makes them “electron rich”. The adsorbent can be useful for retaining amines and aromatic compounds from either aqueous or non-aqueous solvents. ISOLUTE® AL-N has a nominal moisture content of <0.1% (Brockmann Activity I/Super 1 grade), and surface pH of 7.5. Also available in bulk sorbent, see page 54.

ISOLUTE® AL-B

Washing this material with a basic solution results in a net negative charge. Cationic compounds are retained on the negatively charged surface or by specific interactions with the metal center. ISOLUTE® AL-B has a nominal moisture content of <0.1% (Brockmann Activity I/Super 1 grade), and surface pH of 10.

Column Configuration	Qty.	Part Numbers		
		AL-A	AL-N	AL-B
50 mg/1 mL	100	713-0005-A	—	—
100 mg/1 mL	100	713-0010-A	—	715-0010-A
200 mg/3 mL	50	713-0020-B	714-0020-B	715-0020-B
500 mg/3 mL	50	713-0050-B	714-0050-B	715-0050-B
500 mg/6 mL	30	713-0050-C	714-0050-C	—
1 g/3 mL	50	—	714-0100-B	—
1 g/6 mL	30	713-0100-C	714-0100-C	715-0100-C
2 g/6 mL	30	—	714-0200-C	—
2 g/15 mL	20	713-0200-D	714-0200-D	—
5 g/25 mL	20	—	714-0500-E	715-0500-E
10 g/70 mL	16	—	714-1000-F	715-1000-F

ISOLUTE® EPH SPE Columns

Fractionate extractable petroleum hydrocarbons in soil extracts prior to GC analysis. ISOLUTE® EPH columns are optimized to ensure no breakthrough of lower MW aromatic hydrocarbons (PAHs) in the aliphatic fraction. Application notes with methodology optimized for automated SPE processing are available. See technical note TN142 for more information and download application note AN877 (Biotage® Extrahera™) or AN704 (RapidTrace®) for automated methods.



3 mL ISOLUTE® EPH Column

Part Number	Description	Qty.
928-0145-B	ISOLUTE EPH 1.45 g/3 mL Columns for Automated Method	50
928-0500-E	ISOLUTE EPH 5 g/25 mL Columns for Manual Method	20

ISOLUTE® Layered SPE Columns

Simultaneously extract analytes with a broad range of polarity characteristics from aqueous samples or clean up complex solvent extracts. Download technical note PPS428 'Optimizing Extraction of Multianalyte Suites from Water Samples Using Layered Solid Phase Extraction Columns' for more information.

Part Number	Description	Qty.
933-0050-B	ISOLUTE C2/C18(EC) 500 mg/3 mL	50
933-0100-C	ISOLUTE C2/C18(EC) 1 g/6 mL	30
934-0040-C	ISOLUTE C8/ENV+ 400 mg/6 mL	30
932-0035-B	ISOLUTE C18(EC)/ENV+ 350 mg/3 mL	50
935-0040-C	ISOLUTE C18/ENV+ 400 mg/6 mL	30
981-0100-B	ISOLUTE SCX-2/SAX 1 g/3 mL	50
973-0170-B	ISOLUTE ACSIL/SCX-2/SIL 1.7 g/3 mL	50
973-0170-C	ISOLUTE ACSIL/SCX-2/SIL 1.7 g/6 mL	30

ISOLUTE® PAH SPE Columns

Extract PAHs from water samples containing polar interferences such as humic acids. The layered column removes humic acids from the final extract, so that they cannot interfere in the final analysis. Download application note IST1025A for more information.

Part Number	Description	Qty.
927-0075-B	ISOLUTE PAH 750 mg/3 mL	50
927-0075-BD	ISOLUTE PAH 750 mg/3 mL (Depth Filter)	50
927-0150-C	ISOLUTE PAH 1.5 g/6 mL	30
927-0150-CA	ISOLUTE PAH 1.5 g/6 mL (ASPEC Adapter)	30

ISOLUTE® SAX/PSA Columns

Remove polar interferences and pigments from plant extracts prior to pesticide residue analysis. Download application note IST1027A for more information.

Part Number	Description	Qty.
924-0100-C	ISOLUTE SAX/PSA 1 g/6 mL	30
924-0200-C	ISOLUTE SAX/PSA 2 g/6 mL	30

ISOLUTE® TPH SPE Columns

Extract total petroleum hydrocarbons from water samples and eliminate tedious shaking and emulsion problems common in liquid-liquid extraction methods. Manual and automated methodologies are available, download application notes IST1042 and IST1018 respectively for more information.

Part Number	Description	Qty.
752-0100-C	ISOLUTE TPH 1 g/6 mL	30



6 mL ISOLUTE® TPH Column

ISOLUTE® O & G SPE Columns

Extract total Oil and Grease from water samples and fractionate into HEM and SGT-HEM fractions in one step. Application note IST1005 meets US EPA 1664 guidelines.

Part Number	Description	Qty.
753-0100-C	ISOLUTE O&G 1 g/6 mL	30
753-0100-CD	ISOLUTE O&G 1 g/6 mL (Depth Filter)	30
753-0300-F	ISOLUTE O&G 3 g/70 mL	16
753-0300-FD	ISOLUTE O&G 3 g/70 mL (Depth Filter)	16

ISOLUTE® Na₂SO₄/FL SPE Columns

Remove halogenated interferences from mineral oil extracts. Application note IST1077 complies with the ISO9377-2:200 method.

Part Number	Description	Qty.
976-0400-C	ISOLUTE Na ₂ SO ₄ /FL 4 g/6 mL	30



6 mL ISOLUTE® Na₂SO₄/FL Column

ISOLUTE® Myco SPE Columns

ISOLUTE® Myco SPE columns offer simple and efficient multiple mycotoxin sample preparation from a wide range of matrices, ideally suited for selective and fast LC-MS/MS analysis. ISOLUTE Myco SPE columns contain a novel polymer based sorbent designed specifically to be selective enough to isolate a wide variety of different mycotoxins.

ISOLUTE® Myco Columns

Part Number	Description	Qty.
150-0006-BG	ISOLUTE Myco 60 mg/3 mL (Tablets)*	50



Support Documents for ISOLUTE® Myco

PPS318: ISOLUTE® Myco Solid Phase Extraction Columns