

Продукты для твердофазной экстракции SPE

Технические характеристики

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Solid-phase extraction (SPE) has developed into an ideal method for preparing samples before testing with analytical techniques such as HPLC, GC, TLC, RIA and NMR, among others. The choice of a wide range of phases, either silica- or polymer-based, can be used to return excellent separations and high recovery rates.



ExtraBond® Silica Cartridges

Solid Phase Extraction (SPE) has become the ideal method for sample preparation prior to analyses using HPLC, GC, TLC, RIA, NMR and other analytical techniques.

Scharlau ExtraBond® comprises a wide range of packaging materials, silica gel as well as polymers of the highest quality and purity that provide excellent and reproducible separation as well as a high recovery rate. Each box of ExtraBond® comes with a certificate of analysis.

What makes Extrabond unique?

- Each Extrabond® cartridge has the phase type and batch number imprinted for greater traceability. It also helps to avoid confusion when handling cartridges of different phases.

- The Extrabond® cartridges are supplied in practical vacuum bags to ensure maximum protection against moisture and thus better conservation. Moreover, the vacuum packing acts as a protector against possible phase detachments.

All these features allow maximum preservation and traceability

Extrabond® is available in a wide range of formats: open cartridges ranging from 1 to 60 ml, cartridges with large reservoir capacity (LRC) of 10 or 15ml, closed cartridges, glass cartridges, 96 and 48 well extraction plates and QuEChERS kits.

ExtraBond® Non-Silica Cartridges

Phase

ALASorbent mass (mg)

1000Volume (ml)

6Pore size (Å)

80Particle (µm)

100-200Pack (u.)

50

Reference
[ALA01G-06T](#)
Packaging
x 50 u.

Phase
ALASorbent mass (mg)
500Volume (ml)
3Pore size (Å)
80Particle (µm)
100-200Pack (u.)
50

Reference
[ALA500-03L](#)
Packaging
x 50 u.

Phase
ALASorbent mass (mg)
500Volume (ml)
6Pore size (Å)
80Particle (µm)
100-200Pack (u.)
50

Reference
[ALA500-06T](#)
Packaging
x 50 u.

ALB. Basic aluminum oxide. SCHARLAU

Phase
ALBSorbent mass (mg)
1000Volume (ml)
6Pore size (Å)
80Particle (µm)
Pack (u.)
30

Reference
[ALB01G-06T](#)
Packaging
x 50 u.

Phase
ALBSorbent mass (mg)
200Volume (ml)
3Pore size (Å)
80Particle (µm)

50Pack (u.)
50
Reference
[ALB200-03L](#)
Packaging
x 50 u.

Phase
ALB**Sorbent mass (mg)**
500**Volume (ml)**
3**Pore size (Å)**
80**Particle (µm)**
Pack (u.)
50
Reference
[ALB500-03L](#)
Packaging
x 50 u.

Phase
ALB**Sorbent mass (mg)**
500**Volume (ml)**
6**Pore size (Å)**
80**Particle (µm)**
Pack (u.)
30
Reference
[ALB500-06T](#)
Packaging
x 50 u.

ALN. Aluminum oxide with neutralized surface

Phase
ALN**Sorbent mass (mg)**
1000**Volume (ml)**
6**Pore size (Å)**
80**Particle (µm)**
Pack (u.)
30
Reference
[ALN01G-06T](#)
Packaging
x 50 u.

Phase
ALN**Sorbent mass (mg)**
100**Volume (ml)**
1**Pore size (Å)**

80Particle (µm)
Pack (u.)
100
Reference
[ALN100-01C](#)
Packaging
x 50 u.

Phase
ALNSorbent mass (mg)
500Volume (ml)
3Pore size (Å)
80Particle (µm)
Pack (u.)
50
Reference
[ALN500-03L](#)
Packaging
x 50 u.

Phase
ALNSorbent mass (mg)
500Volume (ml)
6Pore size (Å)
80Particle (µm)
Pack (u.)
30
Reference
[ALN500-06T](#)
Packaging
x 30 u.

GCB. Graphitized carbon black. SCHARLAU

Phase
GCB Sorbent mass (mg)
100Volume (ml)
1Pore size (Å)
-Particle (µm)
120-400Pack (u.)
100
Reference
[GCB100-01C](#)
Packaging
x 50 u.

Phase
GCB Sorbent mass (mg)
200Volume (ml)

3Pore size (Å)
-Particle (µm)
120-400Pack (u.)
50
Reference
[GCB200-03L](#)
Packaging
x 50 u.

Phase
GCB**Sorbent mass (mg)**
500Volume (ml)
6Pore size (Å)
-Particle (µm)
120-400Pack (u.)
30
Reference
[GCB500-06T](#)
Packaging
x 50 u.

GCB/NH₂. Graphitized carbon black/Amine (equivalent volume). SCHARLAU

Phase
GCB/NH₂**Sorbent mass (mg)**
300Volume (ml)
6Pore size (Å)
Particle (µm)
Pack (u.)
30
Reference
[CNH300-06T](#)
Packaging
x 50 u.

Phase
GCB/NH₂**Sorbent mass (mg)**
500Volume (ml)
6Pore size (Å)
Particle (µm)
Pack (u.)
30
Reference
[CNH500-06T](#)
Packaging
x 30 u.



ExtraBond® Polymeric EB Cartridges

Cartridges from the latest generation ExtraBond® Polymeric line are based on the ExtraBond® EB phase. This sorbent is a spherical divinylbenzene polystyrene modified with pyrrolidone. It has more capacity and surface area than silica-based packings with high recovery and extraction rates. It is a material that provides a balance between hydrophilic and hydrophobic properties and can be used in a pH range from 1 to 14. The ExtraBond® Polymeric range consists of 4 types of packing materials with differing polarities due to modifications.



Bulk adsorbents ExtraBond®

Phase

AL-N

Description
Aluminium oxide neutral

Pore size (Å)
60

Pack (g)
100

Reference

[000ALN100G](#)

Packaging

x 100 g

Phase

FL

Description
Florisil

Pore size (Å)
60

Pack (g)
100

Reference

[000FLO100G](#)

Packaging

x 100 g

Phase

NH2

Description
Aminopropyl

Pore size (Å)
60

Pack (g)
100

Reference

[000NH2100G](#)

Packaging

x 100 g

Phase**AL-N****Description**Aluminium oxide neutral**Pore size (Å)****60****Pack (g)**

1000

Reference[00ALN1000G](#)**Packaging**

x 1000 g

Phase**FL****Description**Florisil**Pore size (Å)****60****Pack (g)**

1000

Reference[00FLO1000G](#)**Packaging**

x 1000 g

Phase**NH2****Description**Aminopropyl**Pore size (Å)****60****Pack (g)**

1000

Reference[00NH21000G](#)**Packaging**

x 1000 g

Phase**GCB****Description**Graphitized carbon**Pore size (Å)****-Pack (g)**

100

Reference[CA03530100](#)**Packaging**

x 100 g :: Glass bottle

Phase**GCB****Description**Graphitized carbon**Pore size (Å)****-Pack (g)**

1000

Reference[CA03531000](#)**Packaging**

x 1 kg :: Plastic container

Phase**PSA****Description**

Ethylendiamine-N-propyl**Pore size (Å)**

60Pack (g)

100

Reference[KQ00230100](#)**Packaging**

x 100 g :: Plastic bottle

Phase**PSA****Description**

Ethylendiamine-N-propyl**Pore size (Å)**

60Pack (g)

1000

Reference[KQ00231000](#)**Packaging**

x 1 kg :: Plastic container

Phase**C18****Description**

Octadecyl**Pore size (Å)**

60Pack (g)

100

Reference[KQ00240100](#)**Packaging**

x 100 g :: Plastic bottle

Phase**C18****Description**

Octadecyl**Pore size (Å)**

60Pack (g)

1000

Reference[KQ00241000](#)**Packaging**

x 1 kg :: Plastic container

Accessories for SPE cartridges



ExtraVac® Vacuum manifolds

Description

Vacuum trap 500ml

Pack (u.)
1

Reference

[0115530058](#)

Packaging

x u.



Description

Vacuum tube, latex 10mm IDx20mm ED

Pack (u.)
10m

Reference

[288-430.11](#)

Packaging

x 10 m

Description

Scharlau ExtraVac vacuum manifolds 12 complete, 12 positions

Pack (u.)
1

Reference

[EXTRAVAC12](#)

Packaging

x u.

Description

Scharlau ExtraVac vacuum manifolds 20 complete, 24 positions

Pack (u.)
1

Reference

[EXTRAVAC20](#)

Packaging

x u.



Dispersive Kits

For the solid-phase stage, all tubes from ExtraBond QuEChERS kits have the product code and batch number imprinted on them for maximum traceability. When working with Scharlau's variant EN-A, use kit QUDISENAK2 for general analysis.

Extraction Kits

For the extraction stage, Scharlau uses mainly sachets for maximum convenience and ease-of-use, although tubes are also available. The content of the sachet is easily poured into a 50ml tube at the appropriate time, after adding the acetonitrile to the sample. In this way the possible exothermic reaction is avoided and greater recoveries obtained.



Extrabond® LLE

Developed to speed up liquid-liquid extractions in laboratories. ExtraBond® LLE cartridges are made of polypropylene medical grade and contain diatomaceous earth, a high purity packing chemically stable to solvents.

Unlike solid phase extraction cartridges, ExtraBond® LLE operates simply by gravity without the need for vacuum.

For preparation of biological samples, the cartridge must be selected with the volume of adsorbent corresponding to the total volume of the sample, including buffers and additives. The method is very simple. When an aqueous sample is added to ExtraBond® LLE, it acts to distribute it as a thin film on its surface. When the organic solvent (immiscible with water) is added, the resulting liquid-liquid extraction is very fast and efficient. This is a general method suitable for sample preparation prior to LC/MS.

For purification of organic reaction mixtures, fill the cartridge with acidified water (to remove amines) or water with an alkaline pH (to remove acids). The cartridge selection must be based on the total volume of aqueous buffer to be used. Then pass the reaction mixture through the cartridge. It is an easy, fast and reproducible way to remove excess reagents or reaction by-products from an organic reaction mixture.

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