

Алматы (7273)495-231
Ангарск (3955)60-70-56
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Благовещенск (4162)22-76-07
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Владикавказ (8672)28-90-48
Владимир (4922)49-43-18
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89

Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Коломна (4966)23-41-49
Кострома (4942)77-07-48
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Курган (3522)50-90-47
Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Ноябрьск (3496)41-32-12
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Петрозаводск (8142)55-98-37
Псков (8112)59-10-37

Пермь (342)205-81-47
Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Саранск (8342)22-96-24
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Сыктывкар (8212)25-95-17
Тамбов (4752)50-40-97

Тверь (4822)63-31-35
Тольятти (8482)63-91-07
Томск (3822)98-41-53
Тула (4872)33-79-87
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Улан-Удэ (3012)59-97-51
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Чебоксары (8352)28-53-07
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Чита (3022)38-34-83
Якутск (4112)23-90-97
Ярославль (4852)69-52-93

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Технические характеристики на калиброванные хроматографические колонки, неорганические адсорбенты, смоляные адсорбенты, реагенты компании **Sigma-Aldrich**

Виды товаров: калиброванные хроматографические колонки, анионообменная смола, активированная бромцианом сефароза, ионообменная смола, амберлит, холестираминавая смола, сефадекс и др.



Sigma-
Aldrich
Z560472
Aldrich®
calibrated chromatography column with solvent reservoir

reservoir volume 250 mL, top joint: threaded 24/40, column volume 200 mL

Properties

column O.D. × effective

L: 19 mm × 813 mm

column volume: 200 mL

reservoir volume: 2000 mL

material: PTFE stopcock

grade: for chromatography

Joint: top joint: threaded 45/50

technique(s): HPLC: suitable



Sigma-
Aldrich
Z560669
Aldrich®
calibrated chromatography column with solvent reservoir

reservoir volume 100 mL, top joint: threaded 24/40, column volume 100 mL

column O.D. × effective

L: 76 mm × 560 mm

column volume: 100 mL

reservoir volume: 250 mL

material: PTFE stopcock

grade: for chromatography

Joint: top joint: threaded 24/40

technique(s): HPLC: suitable



Sigma-
Aldrich
Z560502
Aldrich®
calibrated chromatography column with solvent reservoir

reservoir volume 2000 mL, top joint: threaded 45/50, column volume 2000 mL

column O.D. × effective

L: 25 mm × 584 mm

column volume: 2000 mL

reservoir volume: 100 mL

material: PTFE stopcock

grade: for chromatography

Joint: top joint: threaded 24/40

technique(s): HPLC: suitable



Sigma-
Aldrich
Z560367
Aldrich®
calibrated
d
chromat
ography
column
with
solvent
reservoir
and
fritted
disc

reservoir volume 100 mL, top
joint: threaded 24/40

Properties

column O.D. × effective
L: 25 mm × 584 mm

column volume: 100 mL

reservoir volume: 1000 mL

material: PTFE stopcock

grade: for chromatography

Joint: top joint: threaded45/40

technique(s): HPLC: suitable



Sigma-
Aldrich
Z560634
Aldrich®
calibrated
d
chromat
ography
column
with
solvent
reservoir

reservoir volume 250 mL, top
joint: threaded 24/40

column O.D. × effective
L: 57 mm × 508 mm

column volume: 200 mL

reservoir volume: 100 mL

material: PTFE stopcock

grade: for chromatography

Joint: top joint: threaded24/40

technique(s): HPLC: suitable



Sigma-
Aldrich
Z560340
Aldrich®
calibrated
d
chromat
ography
column
with
solvent
reservoir
and
fritted
disc

reservoir volume 1000 mL, top
joint: threaded 45/40, column
volume 1000 mL

column O.D. × effective
L: 19 mm × 813 mm

column volume: 1000 mL

reservoir volume: 250 mL

material: PTFE stopcock

grade: for chromatography

Joint: top joint: threaded24/40

technique(s): HPLC: suitable



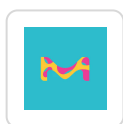
50197-U
Partisil™
10 SCX
HPLC
Column

10 µm particle size,
 L × I.D. 25 cm ×
 4.6 mm



20324AST
Astec®
CYCLOB
OND™ I
2000
RSP
Chiral
HPLC
Column

5 µm particle size, L
 × I.D. 25 cm ×
 4.6 mm



808540
TSKgel®
G2000S
W_{XL} HPL
Column

phase diol,^C L × I.D.

30 cm × 7.8 mm,
 5 µm particle size



15024AST
Astec®
CHIROB
IOTIC®

Chiral
HPLC
Column

V2

× I.D. 25 cm ×
 4.6 mm
 5 µm particle size, L

Description

Synonyms

Partisil™ HPLC
 Column

TSKgel® SW_{XL} Col
 umns

Quality Designations

100

100

100

Properties

Agency: suitable
 for USP L9

Agency: suitable
 for USP L45

Agency: suitable
 for USP L20
 suitable for USP
 L59

Agency: suitable
 for USP L88

separation
technique: cation
 exchange

separation
technique: chiral

separation
technique: size
 exclusion (SEC)

separation
technique: chiral

L × I.D.: 25 cm ×



50197-U

Partisil™

10 SCX

HPLC

area: 350 m²/g

Column

extent of

labeling: 10%

Carbon loading

feature: endcapped

: no

description:

manufacturer/trad

ename: Partisil™

material:

matrix active

group: sulfonic

acid phase

matrix: sulphonic

acid

parameter: ≤70 °C

temp. range

L × I.D.: 25 cm ×



20324AST

Astec®

CYCLOB

surface area:

OND™ I

2000

RSP

HPLC

Column

feature:

description:

manufacturer/trad

ename: Astec®

material: stainless

steel column

matrix active

group: cyclodextrin

, beta- phase

matrix: silica

particle platform

fully porous particle

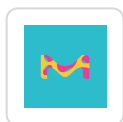
parameter: 0-50 °C

temperature

172 bar pressure

(2500 psi)

L × I.D.: 30 cm ×



808540

TSKgel®

G2000S

surface area:

W_{XL} HPL

C

Column

extent of labeling:

feature:

description:

manufacturer/trad

ename: Tosoh

08540

material: stainless

steel

matrix active

group: diol phase

matrix: silica

particle platform

parameter: ≤0.5 M

salt concentration

0-100% aqueous

soluble organic

L × I.D.: 25 cm ×



15024AST

Astec®

CHIROB

surface area:

IOTIC®

V2

Chiral

Column

feature:

description: HPLC

column

manufacturer/trad

ename: Astec®

material: stainless

steel column

matrix active

group: vancomycin

phase

matrix: High-purity

silica gel particle

platform

fully porous particle

parameter: 0-45 °C

temperature

241 bar pressure

(3500 psi)

solvents
1.2 mL/min flow

packaging:
particle
size: 10 µm

packaging: pkg of
1 ea

packaging:

packaging: ^{Column} pkg of
1 ea

operating pH:

particle size: 5 µm
operating pH: 3.5-
7

particle size: 5 µm
operating pH: 2.5-
7.5

particle size: 5 µm
operating pH:

operating pH
range:

operating pH
range:

operating pH
range:

operating pH
range: 3.5-7.0

pore size: 85 Å

pore size: 100 Å
pore size

pore size: 125 Å

pore size: 200 Å

product
line: Partisil™

product
line: Astec®

product
line: TSKgel®

product
line: Astec®

technique(s): HPL
C: suitable

technique(s): HPL
C: suitable
LC/MS: suitable

technique(s): HPL
C: suitable

technique(s): HPL
C: suitable
LC/MS: suitable

Quality Level: 100

Quality Level: 100

Quality Level:

Quality Level: 100

Risk and Safety

Storage Class Code:

11 - Combustible

Solids

WGK:

WGK 3

Flash Point(F):

Not applicable

Flash Point(C):

Not applicable

Storage Class Code:

13 - Non

Combustible Solids

WGK:

WGK 3

Flash Point(F):

Not applicable

Flash Point(C):

Not applicable

C o l u m n

9 µm particle size, L
× I.D. 30 cm ×
7.8 mm

5 µm particle size, L
× I.D. 25 cm ×
4.6 mm

5 µm particle size, L
× I.D. 25 cm ×
4.6 mm

phase diol, L × I.D.
4 cm × 6 mm, 7 µm
particle size

Description

Synonyms

SUPELCOGEL™ 6
% Cross Linked
HPLC Columns

TSKgel® SW_{XL} Col
umns

Quality Designations

100

100

100

Properties

Agency: suitable
for USP L17

Agency: suitable
for USP L1

Agency: suitable
for USP L8

Agency: suitable
for USP L20
suitable for USP
L59

**separation
technique:** ion

**separation
technique:** reverse

**separation
technique:** hydrop

**separation
technique:** size

exclusion	d phase	hilic interaction (HILIC) normal phase	exclusion (SEC)
compatibility:	compatibility: for use with PTC-AA	compatibility:	compatibility:
L × I.D.: 30 cm × 7.8 mm	L × I.D.: 25 cm × 4.6 mm	L × I.D.: 25 cm × 4.6 mm	L × I.D.: 4 cm × 6 mm
surface area:	surface area: 170 m ² /g	surface area: 170 m ² /g	surface area:
extent of labeling:	extent of labeling: 11.0% Carbon loading	extent of labeling: 3% Carbon loading	extent of labeling:
feature: endcapped : no	feature: endcapped	feature: endcapped	feature:
manufacturer/tradename:	manufacturer/tradename: SUPELCO SIL™	manufacturer/tradename: SUPELCO SIL™	manufacturer/tradename: Tosoh 08543
application(s):	application(s): food and beverages	application(s): food and beverages	application(s):
material: stainless steel column	material: stainless steel column	material:	material: stainless steel
matrix active group:	matrix active group: C18 (octadecyl) phase	matrix active group: amino phase	matrix active group: diol phase
matrix: sulfonated polystyrene/divinylb	matrix: silica gel, spherical particle	matrix: silica gel, spherical particle	matrix: silica particle platform

enzyme, spherical particle platform polymeric	platform fully porous particle	platform	
parameter: 85 °C max. temp.	parameter: 0-70 °C temperature 400 bar pressure (5801 psi)	parameter: ≤70 °C temp. range 400 bar pressure (5801 psi)	parameter: ≤0.5 M salt concentration 0-100% aqueous soluble organic solvents 1.2 mL/min flow rate 10-30 °C temperature
packaging: 1 ea of	packaging: 1 ea of	packaging:	packaging:
particle size: 9 µm	particle size: 5 µm	particle size: 5 µm	particle size: 7 µm
operating pH:	operating pH: 2- 7.5	operating pH:	operating pH: 2.5- 7.5
pore size:	pore size: 120 Å	pore size: 120 Å	pore size: 250 Å
product line: SUPELCOGE L™	product line: SUPELCOSIL ™	product line:	product line: TSKgel®
surface coverage:	surface coverage: surface coverage 3.1 µmol/m ²	surface coverage: surface coverage 5.1 µmol/m ²	surface coverage:
technique(s): HPL C: suitable	technique(s): HPL C: suitable	technique(s): HPL C: suitable	technique(s): HPL C: suitable
Quality Level: 100	Quality Level: 100	Quality Level: 100	Quality Level:

Usage and Safety

Risk and Safety

Storage Class Code:

11 - Combustible

Solids

WGK:

WGK 3

Flash Point(F):

Not applicable

Flash Point(C):

Not applicable

Personal Protective

Equipment:

Eyeshields, Gloves,
type N95 (US)

Storage Class Code:

11 - Combustible

Solids

WGK:

WGK 3

Flash Point(F):

Not applicable

Flash Point(C):

Not applicable



504955
Discover[®] C18
HPLC
Column



1.51486
manu-
CART[®]
NT
cartridge holder
for
LiChroC
ART[®] 2
3,4,4.6
mm i.d.
HPLC
cartridges



581325-U
Ascentis[®] C18
HPLC
Column



808025
TSKgel[®]
GMPW_x
L HPLC
Column

5 µm particle size, L
× I.D. 15 cm ×
4.6 mm

5 µm particle size, L
× I.D. 25 cm ×
4.6 mm

phase hydroxylated
methacrylate, L ×
I.D. 30 cm ×
7.8 mm, 13 µm
particle size

Description

Synonyms

TSKgel[®] Size
Exclusion (PW-
Type) HPLC
Column

Properties

Agency: suitable for USP L1

Agency:

Agency: suitable for USP L1 (Similar to Phenomenex Luna C18)

Agency: suitable for USP L38 suitable for USP L39

separation technique: reverse phase

separation technique:

separation technique: reverse phase

separation technique: size exclusion (SEC)

L × I.D.: 15 cm × 4.6 mm

L × I.D.:

L × I.D.: 25 cm × 4.6 mm

L × I.D.: 30 cm × 7.8 mm

surface area: 300 m²/g

surface area:

surface area: 450 m²/g

surface area:

extent of labeling: 12% Carbon loading

extent of labeling:

extent of labeling: 25% Carbon loading

extent of labeling:

feature: endcapped

feature:

feature: endcapped

feature:

impurities: <10 ppm metals

impurities:

impurities: <5 ppm metals

impurities:

manufacturer/tradename: Discovery[®]

manufacturer/tradename:

manufacturer/tradename: Ascentis[®]

manufacturer/tradename: Tosoh 08025

matrix active group: C18 (octadecyl) phase

matrix: silica gel, high purity, spherical particle platform

parameter: ≤70 °C temp. range
400 bar pressure (5801 psi)

packaging:

particle size: 5 μm

operating pH range: 2-8

operating pH:

matrix active group:

matrix:

parameter:

packaging:

particle size:

operating pH range:

operating pH:

matrix active group: C18 (octadecyl) phase

matrix: fully porous particle silica gel high purity, spherical

parameter: ≤70 °C temp. range
400 bar pressure (5801 psi)

packaging: 1 ea of

particle size: 5 μm

operating pH range: 2-8

operating pH:

matrix active group: hydroxylated methacrylate phase

matrix: polymer particle platform

parameter: ≤0.5 M salt concentration
≤20% organic solvent
1 mL/min flow rate
20 bar max. pressure
80 °C temperature

packaging:

particle size: 13 μm

operating pH range:

operating pH: 2-12

pore size: 180 Å	pore size:	pore size: 100 Å	pore size: pore diameter (100 -
product line:	product line:	product Column line: Ascentis®	product Column line: TSKgel®
storage temp.:	temp limit	storage temp.:	storage temp.:
surface coverage: 3 µmol/m ²	surface coverage:	surface coverage: 3.7 µmol/m ²	surface coverage:
technique(s): HPL C: suitable	technique(s): HPL C: suitable	technique(s): HPL C: suitable LC/MS: suitable	technique(s): HPL C: suitable
Quality Level: 100	Quality Level:	Quality Level: 100	Quality Level:

Usage and Safety

Risk and Safety

Storage Class Code: 11 - Combustible Solids WGK: WGK 3 Flash Point(F): Not applicable Flash Point(C): Not applicable	Storage Class Code: 11 - Combustible Solids	Storage Class Code: 11 - Combustible Solids WGK: nwg Flash Point(F): Not applicable Flash Point(C): Not applicable
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Agency: suitable for USP L20

suitable for USP L59



808542

TSKgel® G4000SW_{XL} HPLC

Column

separation technique: size exclusion (SEC)

L × I.D.: 30 cm × 7.8 mm

column L × I.D.:

feature:

manufacturer/tradename: Tosoh 08542

material: stainless steel

matrix active group: diol phase

matrix: silica particle platform

parameter: ≤0.5 M salt concentration

0-100% aqueous soluble organic solvents

1.2 mL/min flow rate

10-30 °C temperature

35 bar max. pressure

particle size: 8 μm

Agency: suitable for USP L122



1.50460

SeQuant® ZIC®-pHILIC 5μm

polymer 150 × 2.1 mm

separation technique: hydrophilic interaction (HILIC)

L × I.D.:

column L × I.D.: 15 cm × 2.1 mm

feature: endcapped: no

manufacturer/tradename:

material: PEEK-lined stainless steel column

matrix active group: Zwitterion bonding phase, ZIC-pHILIC

matrix: polymeric particle platform

parameter: 200 bar pressure

50 °C max. temp.

particle size: 5 μm

pore size: 450 Å

pore size: 100 Å pore size

product line: TSKgel®

product line: SeQuant®

storage temp.:

storage temp.: no temp limit

technique(s): HPLC: suitable

technique(s): HPLC: suitable

LC/MS: suitable

UHPLC-MS: suitable

UHPLC: suitable

mass spectrometry (MS): suitable (High)

Quality Level:

Quality Level: 100



G10050

**Sigma-
Aldrich**
Sephadex® G-

100

G10050

Sephade

x® G-100



G25300

**Sigma-
Aldrich**
Sephadex® G-

25

G25300

Sephade

x® G-25



44310

**Sigma-
Aldrich**
AmberChrom™

1X4 chloride

44310

form

AmberCh

rom™ 1X

4

chloride

form

Superfine

Coarse

chloride form, 50-100 mesh

Description

Synonyms

Dowex 1X4, Cl(-)-form,
strongly basic

CAS Number

9050-94-6

9041-35-4

69011-19-4

MDL Number

MFCD00132235

MFCD00132770

MFCD00146764

Quality Designations

100

100
200

100

Properties

capacity:

capacity:

capacity: 1.0 meq/mL capacity

separation technique:

separation technique:

separation technique: anion
exchange

description:

description:

description: cross-linkage 4%

InChI:

InChI: 1S/C6H12O6.C3H8O3/c
7-1-2-3(8)4(9)5(10)6(11)12-2;4-

InChI: 1S/C10H12.C10H10.C8
H8.C3H9N/c2*1-3-9-7-5-6-8-

1-3(6)2-5/h2-11H,1H2;3-6H,1-
2H2/t2-,3-,4-,5-,6-;/m1./s1

10(9)4-2;1-2-8-6-4-3-5-7-8;1-
4(2)3/h3,5-8H,1,4H2,2H3;3-
8H,1-2H2;2-7H,1H2;1-3H3

form

key: BCPVZFFJGCURNR-
OCOFDJSDSA-N

InChI

key: HADXLRSRCPYPJJ-
UHFFFAOYSA-N

loss:

loss:

loss: ~55% loss on drying, 110
°C

matrix active group:

matrix active group:

matrix active group: SAX

matrix:

matrix:

matrix: styrene-divinylbenzene
(gel)

moisture:

moisture:

moisture: >50%

parameter:

parameter:

parameter: 66 °C OH⁻ form
max. temp.
99 °C Cl⁻ form max. temp.

bead size: 20-50 µm

bead size: 100-300 µm

bead size:

particle size:

particle size:

particle size: 50-100 mesh

operating pH:

operating pH:

operating pH: 0-14

form:

form:

form: beads

swelling: 1 g swells to 15-

swelling: 1 g swells to 4-6 mL
gel

technique(s): LPLC: suitable

technique(s): LPLC: suitable

technique(s): LPLC: suitable

Quality Level: 100

Quality Level: 100
200

Quality Level: 100

Usage and Safety

Application

Fractionation Range (MW)

Globular Proteins: 4,000 -
100,000

Dextrans: 1,000 -

100,000Sephadex[®]G-100 is a
gel filtration medium used in
protein chromatography, affinity
chromatography and gel
filtration chromatography.

Sephadex[®] G-25 is a gel
filtration medium used in affinity
chromatography, protein
chromatography and gel
filtration chromatography.

Sephadex[®] G-25 has been
used to study the acceleration
of diabetic wound healing and
the treatment of epithelial
damage.

Dowex 1X4 chloride form is a
strongly basic (type I) anion
exchange resin for fine
pharmaceuticals. Dowex 1X4
ion exchangers have been
used to remove iodinated
contrast media (ICM), water
pollutants, from the water
phase, suggesting a removal
method for use in aquatic
environments. Dowex 1X4 has
also been used to determine
partitioning of heavy metals
(Ca, Mg, Fe and Zn) in cow
milk. Strongly basic (type I)
anion exchange resin for fine
pharmaceuticals; meets
requirements of FDA Food
Additive Regulation 21 CFR
173.25.

Storage Class Code:
11 - Combustible Solids
WGK:
WGK 3
Flash Point(F):
Not applicable
Flash Point(C):
Not applicable
**Personal Protective
Equipment:**
Eyeshields, Gloves, type
N95 (US)

Storage Class Code:
11 - Combustible Solids
WGK:
WGK 3
Flash Point(F):
Not applicable
Flash Point(C):
Not applicable
**Personal Protective
Equipment:**
Eyeshields, Gloves, type
N95 (US)

Storage Class Code:
11 - Combustible Solids
WGK:
WGK 2
Flash Point(F):

Not applicable
Flash Point(C):
Not applicable
**Personal Protective
Equipment:**
Eyeshields, Gloves, type
N95 (US)

preswollen, 45-165 µm (wet),
exclusion limit ~4,000,000 Da

gel form, 16-50 mesh (wet)

Description

Synonyms

Colestyramine, Dowex 1X2 Cl⁻
Form

Q Sepharose™

1,2-bis(ethenyl)benzene,4-
[(E)-2-[(E)-2-but-3-
enoxyethenoxy]ethenoxy]but-1-
ene,N-[3-
(dimethylamino)propyl]prop-2-
enamide

CAS Number

11041-12-6

65899-87-8

Quality Designations

200

200

200

Properties

contains:

contains:

contains: ~60% moisture content

capacity: ~1.0 meq/g(dry)

capacity: 0.18-0.24 mmol Cl⁻/mL, packed gel

capacity: 1.6 meq/mL
5.6 meq/g

InChI:

InChI:

InChI: 1S/C12H18O3.C10H10.C8H16N2O/c1-3-5-7-13-9-11-15-12-10-14-8-6-4-2;1-3-9-7-5-6-8-10(9)4-2;1-4-8(11)9-6-5-7-10(2)3/h3-4,9-12H,1-2,5-8H2;3-8H,1-2H2;4H,1,5-7H2,2-3H3,(H,9,11)/b11-9+,12-10+;;

InChI key:

InChI key:

InChI

key: ZGXNLYRRYYOMNG-

matrix active

group: polyamine

matrix:

matrix:

matrix: Acrylic (gel)

moisture:

moisture:

moisture: ~60%

parameter:

parameter:

parameter: ≤60 °C
temperature

particle size:

particle size: 45-165 µm (wet)

particle size: 16-50 mesh (wet)

pH:

pH:

pH: 0-7(effective)

form: powder

form: preswollen

form: gel form

pore size:

pore size: ~4,000,000 Da
exclusion limit

pore size:

storage temp.:

storage temp.: 2-8°C

storage temp.:

Quality Level: 200

Quality Level: 200

Quality Level: 200

Usage and Safety

- as a diet supplement to study the bile acid pool size and fecal bile acid output in mice
- to alter the bile acid (BA) levels and study its effect on liver fibrosis development in wild type (WT), fibroblast growth factor 15 (Fgf15)^{-/-}, and Fgf15 transgenic (TG) mice
- in *in vitro* digestion process to study the capacity of the fractions for binding bile acid (BA)

Cholestyramine resin is used in protein chromatography, ion exchange chromatography and anion exchange media.

Cholestyramine has been used to study the relief of postcholecystectomy diarrhea, the management of intractable cholestatic pruritus and obesity.

exchange chromatography and anion exchange media. Q Sepharose™ has been used to study compounds of plant defense with applications for natural control of phytopathogenic fungi. Q Sepharose™ has also been used to develop an efficient method for extracting high-quality mRNA from soil and to study the immunomodulatory proteins from garlic (*Allium sativum*).

can be used in anion exchange media. It has been used as an adsorbent for lactic acid extraction from aqueous solution, and for the extraction of rhinacanthin from *Rhinacanthus nasutus* leaves. Weakly basic anion exchange resin with an unusually high capacity for large organics. Common applications include: deacidification, deionization of process liquors, isolation of acidic natural products, purification of novobiacin and cephalosporins, separation of neutral and acidic amino acids below pH 10, removal of heparinic acid at low pH, concentration of citric acid, and demineralization of cheese whey.

Risk and Safety

Storage Class Code:
11 - Combustible Solids
WGK:

Pictograms: **GHS02**

Storage Class Code:
11 - Combustible Solids
WGK:

WGK 2

Flash Point(F):

Not applic

Personal Protective

Equipment:

Eyeshields, Gloves, type
N95 (US)

Hazard Statements: **H226**
Precautionary
Statements: **P210 - P233 -**
P240 - P241 - P242 - P243

Hazard Classifications:

Flam. Liq. 3

Storage Class Code:

3 - Flammable liquids

WGK:

WGK 1

Flash Point(F):

100.4 - 109.4 °F - closed
cup

Flash Point(C):

38 - 43 °C - closed cup

Personal Protective

Equipment:

Eyeshields, Faceshields,
Gloves, type ABEK
(EN14387) respirator filter

WGK 3

Flash Point(F):

Flash Point(F):

Not applicable **free base**

Personal Protective

Equipment:

Eyeshields, Gloves, type
N95 (



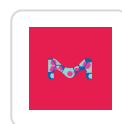
A50120
DEAE-
Sephade
x[®]



C25120
CM
Sephade
x[®] C-25



91973
AMBERL
ITE™ HP
R1100



CG50
Amberlit
e™ CG5
0

Na ion exchange
 resin, strongly acidic,
 20-50 mesh

macroreticular

39455-31-7

62886-59-3

150604-77-6

MDL Number

MFCD00132778

MFCD00132776

MFCD00212649

MFCD00145570

Quality Designations

200

200

100

200

Properties

capacity: 3-4 meq/g
 binding capacity

capacity: 4.0-
 5.0 meq/g ion
 exchange capacity

capacity: ≥2.0 eq/L
 total exchange
 capacity(Na⁺ form)
 42.0-48.0 % water
 retention
 capacity(Na⁺ form)

capacity: 10.0 meq/g
 3.5 meq/mL

separation
technique:

separation
technique:

separation
technique: strong
 cation exchange

separation
technique:

compatibility:	compatibility: mode of use weak cation	compatibility:	compatibility:
loss:	loss:	loss: ~45% loss on drying, 110°C	loss:
manufacturer/tradename:	manufacturer/tradename:	manufacturer/tradename: Du Pont Amberlite™	manufacturer/tradename:
matrix activation:	matrix activation:	matrix activation:	matrix activation: carboxylic acid
matrix active group:	matrix active group:	matrix active group: sulfonic acid	matrix active group:
matrix:	matrix:	matrix: styrene-divinylbenzene (gel)	matrix: 4% cross-linked methacrylate
parameter:	parameter:	parameter: 5-150 °C operating temperature	parameter: ≤120 °C
bead size: 40-125 μm (dry)	bead size: 40-125 μm (dry)	bead size:	bead size:
particle size:	particle size:	particle size: 20-50 mesh 535-635 μm	particle size: 100-200 mesh (wet)
operating pH:	operating pH: 6-10	operating pH:	operating pH:
operating pH range:	operating pH range:	operating pH range: 0-14	operating pH range:
pH:	pH:	pH:	pH: 5-14(effective)

form: powder

form: powder

form: beads

form: macroreticular

Quality Level: 200

Quality Level: 200

Quality Level: 100

Quality Level: 200

Usage and Safety

Application

DEAE Sephadex can be used in ion exchange chromatography for purifying and isolating proteins. It has been used to identify and label an insulin-activated nitric oxide synthase inhibitor (protein) in acute myocardial infarction (AMI) patients.

Sephadex[®] C-25 is used in ion exchange chromatography, cation exchange media, protein chromatography, separation media and resins. Sephadex[®] C-25 has been used to study wasp envenomation and to demonstrate that snake protease inhibitors and neurotoxic homologs originated from a common ancestor.

AMBERLITE[™] HPR100 is a cation-exchange resin and can be used:

- For grafting polyethylene azidolysis of epoxides.
- For the immobilization of β -cyclodextrin to be used as a phase transfer catalyst for the reduction of epoxides to alcohols.
- As an adsorbent for the removal of arsenic and copper from aqueous solutions.

Amberlite[™] Weakly Acidic Cation Exchanger, Hydrogen form has been used in purification of thiamine from crude food extracts and bovine lactoperoxidase enzyme. The Amberlite weakly acidic cation exchanger is in the hydrogen form and is used in protein chromatography, ion exchange chromatography and cation exchange media.

Fine

Medium

Anion Exchange Resin

lyophilized powder



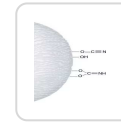
G2580
Sephadex
x® G-25



G100120
Sephadex
x® G-
100



44425
Amberlite
e™ HPR
4811 Cl
Anion
Exchange
Resin



C9142
Cyanogen
bromide
-
activate
d-
Sephacryl
se™ 4B

Description

Synonyms

Amberlite™ HPR4811
chloride form

Cyanogen bromide-
activated Agarose

CAS Number

9041-35-4

9050-94-6

9049-12-1

68987-32-6

MDL Number

MFCD00132770

MFCD00132235

MFCD00146760

MFCD00163385

Quality Designations

200

100

200

Properties

capacity:

capacity:

capacity: 1.3 meq/mL
by wetted bed volume

capacity:

separation
technique:

separation
technique: size

separation
technique:

separation
technique:

exclusion (SEC)

InChI: 1S/C6H12O6.C
Sephade
3H8O3/c7-1-2-
x[®] G-25
3(8)4(9)5(10)6(11)12-
2;4-1-3(6)2-5/h2-
11H,1H2;3-6H,1-
2H2/t2-,3-,4-,5-,6-;/m1
.s1

InChI
key: BCPVZFFJGCU
RNR-OCOFDJSDSA-
N

loss:

application(s): agricul
ture

matrix active group:

matrix spacer:

matrix:

moisture:

bead size: 20-80 µm

InChI key:

loss:

application(s):

matrix active
group: polymer

matrix spacer:

matrix: Agarose

moisture:

bead size: 40-120 µm

InChI key:

loss: ~55% loss on
drying, 110 °C

application(s):

matrix active
group: trimethylbenzyl
ammonium functional
group

matrix spacer:

matrix: styrene-
divinylbenzene (gel)

moisture: 48-58%

bead size:

InChI key:

loss:

application(s):

matrix active
group: cyanate or
related structures

matrix spacer: 1
atom (when ligands
are coupled via
isourea derivative or
related linkage)

matrix: Sepharose
4B

moisture:

bead size:

particle size:	particle size:	particle size: 25-	particle size:
form:	form: slurry	form: solid	form: lyoph powder
storage temp.:	storage temp.:	storage temp.:	storage temp.: 2-8°C
swelling: 1 g swells to 4-6 mL	swelling: 1 g swells to 15-20 mL gel	swelling:	swelling: 1 g swells to 4-5 mL
technique(s): LPLC: suitable	technique(s): LPLC: suitable	technique(s):	technique(s):
Quality Level: 200	Quality Level: 100	Quality Level:	Quality Level: 200

Usage and Safety

Application

Sephadex® G-25 has been used in size-exclusion chromatography to remove excess dye from labelled proteins.

Sephadex®G-100 is a gel filtration medium used in protein chromatography, affinity chromatography and gel filtration chromatography. It has been used:

- in gel filtration column for α-amylase purification
- in gel filtration column for the purification of polysaccharidic

AmberLite™ HPR4811 Cl Anion Exchange Resin Marathon 11 chloride form is a strongly basic (type I) anion exchange resin specifically suited for demineralization of high organic waters and removal of organic material and color bodies. AmberLite™ HPR4811 Cl Anion Exchange Resin anion exchange resin has high uranium sorption and can be

Cyanogen bromide-activated-Sepharose™ 4B has been used:

- in the purification of clusterin from serum by an immunoaffinity-based separation procedure
- in affinity chromatography to isolate *Leishmania*

<p>fraction extracted from</p> <p>exce protamine by size exclusion from cross- linked iron oxide (CLIO)- protamine- linked (B) peptides</p>	<p>used to determine groundwater and</p> <p>samples.Str basic (type exchange r specifically demineralization of high organic waters, removal of organic material and color bodies, with low silica leakage. This resin meets requirements of FDA Food Additive Regulation 21 CFR 173.25.</p>	<p><i>donovani</i> protei n antigens from</p>
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Risk and Safety

<p>Storage Class Code: 11 - Combustible Solids</p> <p>WGK: WGK 3</p> <p>Flash Point(F): Not applicable</p> <p>Flash Point(C): Not applicable</p> <p>Personal Protective Equipment: Eyeshields, Gloves, type N95 (US)</p>	<p>Storage Class Code: 11 - Combustible Solids</p> <p>WGK: WGK 3</p> <p>Flash Point(F): Not applicable</p> <p>Flash Point(C): Not applicable</p> <p>Personal Protective Equipment: Eyeshields, Gloves, type N95 (US)</p>	<p>Storage Class Code: 11 - Combustible Solids</p> <p>WGK: WGK 3</p> <p>Flash Point(F): Not applicable</p> <p>Flash Point(C): Not applicable</p> <p>Personal Protective Equipment: Eyeshields, Gloves, type N95 (US)</p>	<p>Storage Class Code: 11 - Combustible Solids</p> <p>WGK: WGK 3</p> <p>Flash Point(F): Not applicable</p> <p>Flash Point(C): Not applicable</p> <p>Personal Protective Equipment: Eyeshields, Gloves, type N95 (US)</p>
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M1942

Molybdenum Blue spray reagent

PROPERTIES

1.3% molybdenum oxide in 4.2 M sulfuric acid
Molybdenum Blue reagent

200

liquid
thin layer chromatography (TLC): suitable
diagnostic assay manufacturing
hematology
histology
room temp

15-116

ATM/Chk2 Pathway Explorer Antibody MiniPack

PROPERTIES

mouse

100

unconjugated
primary antibodies
10H11.E12, monoclonal
7, monoclonal
AM9, monoclonal

human (05-513SP,05-649SP, 05-740SP), mouse (05-649SP and 05-740SP), rat
Upstate®

immunocytochemistry: suitable
immunoprecipitation (IP): suitable
thin layer chromatography (TLC): suitable
western blot: suitable

NP_000042

NP_001005735

O96017

wet ice
unmodified
human ... **ATM(472)**
mouse ... **Atm(11920)**
rat ... **Atm(300711)**



Алматы (7273)495-231
Ангарск (3955)60-70-56
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Благовещенск (4162)22-76-07
Брянск (4832)59-03-52
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Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89

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Киров (8332)68-02-04
Коломна (4966)23-41-49
Кострома (4942)77-07-48
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Красноярск (391)204-63-61
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Ноябрьск (3496)41-32-12
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Петрозаводск (8142)55-98-37
Псков (8112)59-10-37

Пермь (342)205-81-47
Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Саранск (8342)22-96-24
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
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Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Сыктывкар (8212)25-95-17
Тамбов (4752)50-40-97

Тверь (4822)63-31-35
Тольятти (8482)63-91-07
Томск (3822)98-41-53
Тула (4872)33-79-87
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Улан-Удэ (3012)59-97-51
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Череповец (8202)49-02-64
Чита (3022)38-34-83
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Ярославль (4852)69-52-93

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