Dr. Maisch

Any Column, Any Size, Any Media

ReproSil XR

eXtRa High Purity Phases

ReproSil™ XR

HPLC Columns

- Highly Efficient and Perfect Reproducibility
- General Use Selectivity
- Exceptional Value

ReproSil™ XR	Specifications
Phase	Si, Amino, Phenyl, C8 and C18 (MS)
Encapping	yes
Typical Efficiency	>90,000 plates/m
Surface Area	250 m^2/g , 100 m^2/g
Pore Size	120Å, 300Å
Particle Size	1.5 ,3 ,3.5 ,5 ,7 and 10µm

Choose Wisely - ReproSil XR

Dr.Maisch HPLC GmbH sets a new standard in HPLC columns. We make everything - from the silica particle to the finished product. Our streamlined manufacturing process allows delivery of the highest performance at an exceptional value!

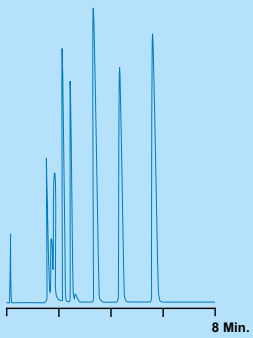
ReproSil XR Columns

Part No.	i.d. x Length	Particle Size	Price
rx15.9e.s1546	4.6 x 150mm	5µm	240€
rx15.9e.s2546	4.6 x 250mm	5µm	270€
rx15.9e.s1502	2.0 x 150mm	5µm	210€
rx15.9e.s2502	2.0 x 250mm	5µm	260€

XtRa High Quality HPLC Phases

Extra High purity silica and uniform bonded phase coverage translates to symmetrical peaks for acids/bases, and predictable reversed phase selectivity. Whether routine analysis or new method developments, use ReproSil XR columns to get premium performance without a premium price.

Standards Mix

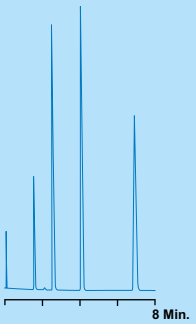


1. Nicotine
2. Quinine
3. Diphenhydramine
4. Nortriptyline
5. 2,4, Dichlorophenoxy acetic acid
6. 2,4, Dichlorophenoxy propionic acid
7. 2,4, Dichlorophenoxy butyric acid

Column: ReproSil XR 120 C18 5µm, 150 x 4.6mm
MobilePhase: 50% MeCN / 50% 50mM KH_2PO_4 pH 3 at 35°C

Baseline resolve challenging separations

Acids, Bases and Neutrals



1. Uracil
2. Amitriptyline
3. Phenylvaleric Acid
4. Toluene

Column: ReproSil XR 120 C18, 5µm, 150 x 4.6mm
MobilePhase: 50% MeCN/50% 50mM KH_2PO_4 pH 3 at 35°C

Get symmetrical peaks shapes for strong acids and bases

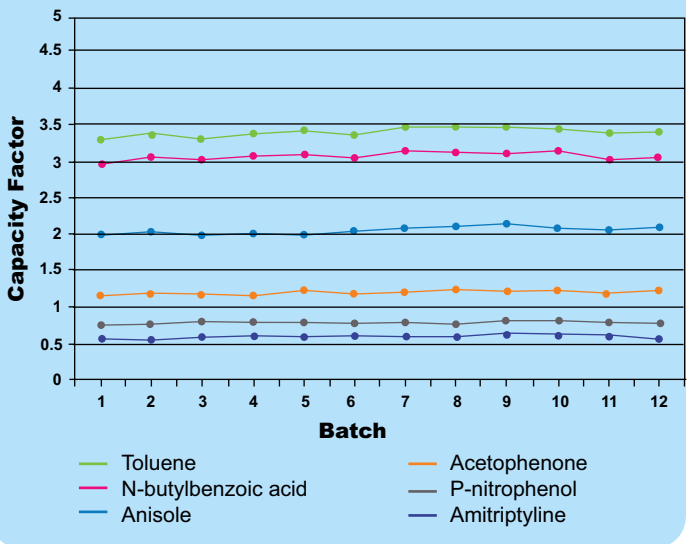
Reproducible Methods Start with Reproducible Columns

Our tightly controlled silica synthesis and bonding keep capacity factor and selectivity variations to a minimum. The advanced packing methods deliver consistently high column-to-column efficiency.

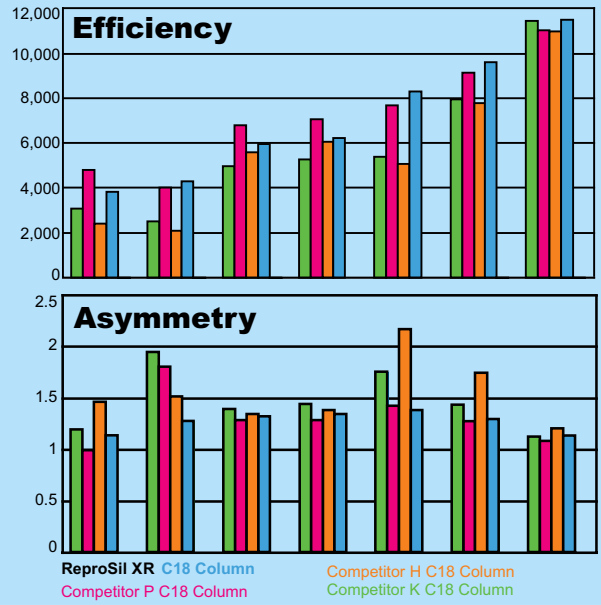
Expect Competitive Performance

Efficient manufacturing is driving force for competitive pricing, but certainly not at the risk of non-competitive performance. ReproSil XR columns show equal or better efficiency and asymmetries for challenging base and acid components in comparison to industry leading columns.

Highly Reproducible Selectivity

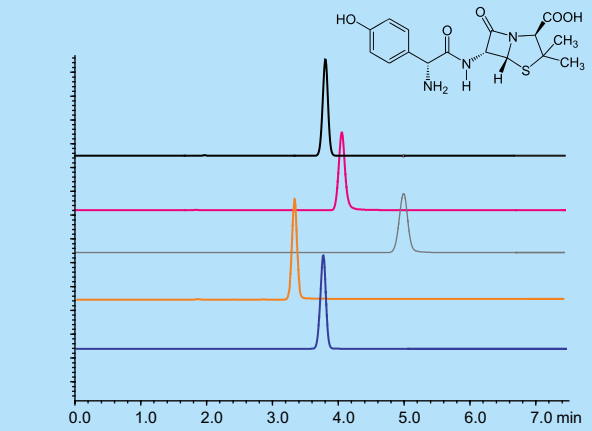


Consistent batch-to-batch capacity for acidic, basic & neutral compounds



ReproSil XR columns compares favorable to leading competitor columns

Amoxicillin (U.S.P.)

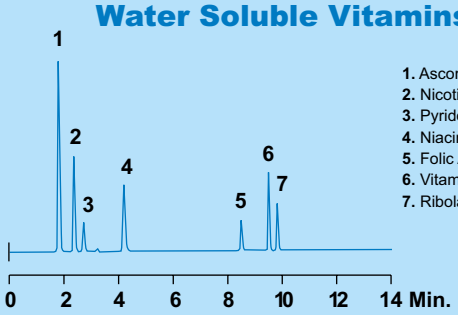


ReproSil XR C18 Column
Competitor P C18 Column
Competitor G C18 Column
Competitor H C18 Column
Competitor K C18 Column

Column: ReproSil XR C18 Column, 4.6 x 250mm, 5µm
(Part No. **rx15.9e.s2546**)
MobilePhase: Isocratic, 0.05 N monobasic potassium phosphate pH 5: Acetonitrile 96:4
FlowRate: 1.5ml/min
Detector: UV, 230nm
ColumnTemp: 30°C
InjectionVol: 10µl

	USP Spec	ReproSil XR C18 Col	Comp P C18 Col	Comp G C18 Col	Comp H C18 Col	Comp K C18 Col
Ret. Time (min)	N/A	**3.80**	4.05	5.09	3.34	3.86
Theoretical plates	≥1700	**8650**	7240	6230	7060	7680
Tailing Factor	≤2.5	**1.0**	1.2	1.1	1.0	1.0
k`	1.1≤k`≤2.8	**1.2**	1.6	2.3	1.0	1.6

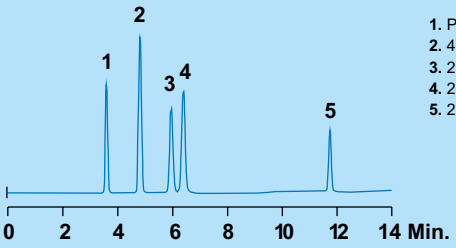
Water Soluble Vitamins



1. Ascorbic Acid
2. Nicotinic Acid
3. Pyridoxamine
4. Niacinamide
5. Folic Acid
6. Vitamin B12
7. Ribolavin

Column: ReproSil XR 120 C18 Column, 4.6 x 150mm
(Part No. **rx15.9e.s1546**)
MobilePhase: **A:** 0.1M NH4H2PO4 Buffer, pH4.5
B: Acetonitrile
Gradient: **(Time, %B):** (0,5), (4,5), (10,40), (15,40)
FlowRate: 1.0mL/min
Detector: UV at 254nm
InjectionVol: 2µl

Phenols

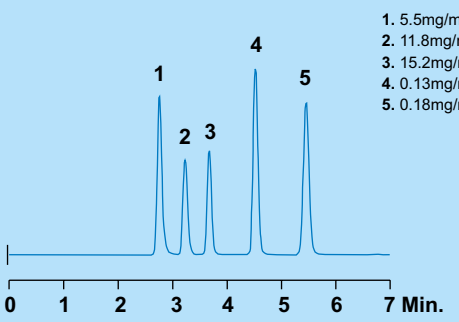


1. Phenol
2. 4-Nitrophenol
3. 2-Chlorophenol
4. 2-Nitrophenol
5. 2,4-Dichlorophenol

Column: ReproSil XR 120 C18 Column, 4.6 x 150mm
(Part No. **rx15.9e.s1546**)
MobilePhase: **A:** 1% Glacial Acetic Acid in Water
B: 1% Glacial Acetic Acid in Methanol
Gradient: **(Time, %B):** (0,45), (6,45) (8,60), (15,80)
FlowRate: 1.0mL/min
Detector: UV at 280nm
InjectionVol: 10µl

Universally usable!

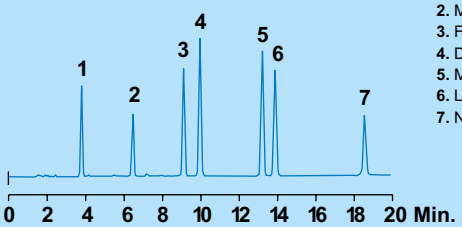
Organic Acids



1. 5.5mg/ml Tartaric Acid
2. 11.8mg/ml Malic Acid
3. 15.2mg/ml Lactic Acid
4. 0.13mg/ml Maleic Acid
5. 0.18mg/ml Fumaric Acid

Column: ReproSil XR 120 C18 Column, 120Å, 5µm, 4.6 x 150mm
(Part No.**rx15.9e.s1546**)
MobilePhase: 0.025M KH2PO4(pH2.5) : Methanol, 97:3
FlowRate: 0.7ml/min
Detector: UV at 220nm
InjectionVol: 1µl

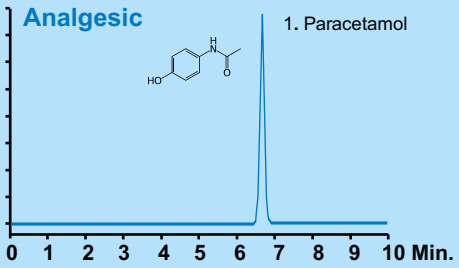
Carbamate & Urea



1. Fenuron
2. Monuron
3. Fluometuron
4. Diuron
5. Methiocarb
6. Linuron
7. Neburon

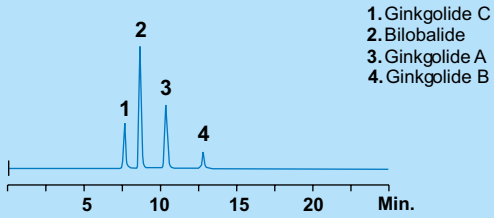
Column: ReproSil XR 120 C18 Column,120Å, 5µm, 4.6 x 150mm
(Part No.**rx15.9e.s1546**)
MobilePhase: **A:** 0.025M KH2PO4,pH3.2 **B:** Acetonitrile
Gradient: **(Time, %B):** (0,30), (20,60)
FlowRate: 1.0ml/min
Detector: UV at 240nm
InjectionVol: 10µl

Paracetamol Effervescent Tablets on Chinese Pharmacopeia Assay



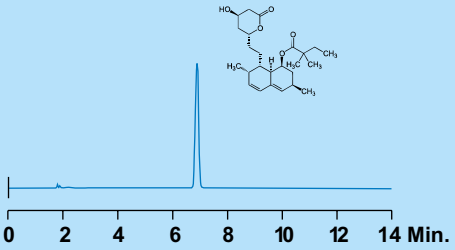
Column: ReproSil XR 120 C18, 5µm, 250x4.6mm
Mobile Phase: Phosphate Buffer:Methanol(80:20)
Flow Rate: 1.0mL/min
Detector: UV at 254nm

Folium Ginkgo



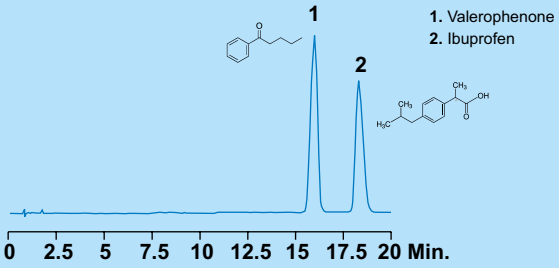
Column: ReproSil XR 120 C18,5µm, 250x4.6mm
Mobile Phase: Methanol:Tetrahydrofuran:Water(25:10:65)
Flow Rate: 1.0mL/min
Detector: ELSD

Simvastatin Tablets (U.S.P)



Column: ReproSil XR 120 C18 Column, 4.6 x 250mm (Part No.**rx15.9e.s2546**)
MobilePhase: 0.39% monobasic sodium phosphate pH4.5: Acetonitrile 35:65
FlowRate: 1.5ml/min
Detector: UV, 238nm
ColumnTemp: 45°C
InjectionVol: 10µl

Ibuprofen (U.S.P.)



Column: ReproSil XR 120 C18 Column, 4.6 x 150mm (Part No. **rx15.9e.s1546**)
MobilePhase: H2O (adjusted with phosphoric acid to a pH of 2.5) : Acetonitrile 6.5:3.5
FlowRate: 2ml/min
Detector: UV, 214nm
InjectionVol: 5µl

From UHPLC

to PrepLC

fully scaleable

Dr. Maisch
Any Column, Any Size, Any Media

Dr. Maisch HPLC GmbH
Beim Brückle 14
D-72119 Ammerbuch
Fon: 0049 7073 50357
Fax: 0049 7073 4216
www.Dr-Maisch.com
www.ModCol.com
E-Mail: info@Dr-Maisch.com

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