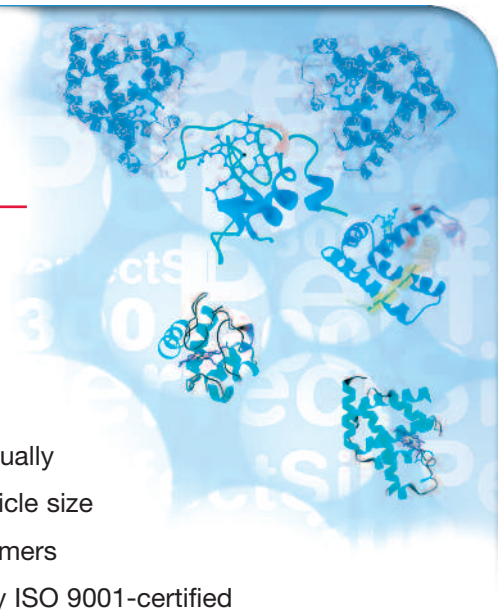
www.perfectsil.com

MZ ANALYSENTECHNIK

# PerfectSil®300

## HighQuality for Bioseparations

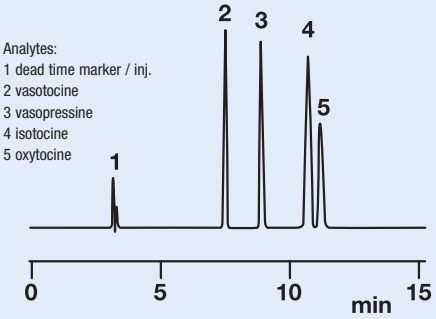


- State-of-the-art technology
- Ultra pure silica 99,999 %
- High-end surface chemistry
- Enables steep gradients
- Very low phase bleeding
- Suitable for LC/MS-applications
- High mechanical stability
- Excellent chemical stability
- Highly reproducible
- Refill-service due to high-quality stainless-steel
- Each column tested individually
- Available in 5 & 10 µm particle size
- 300 Å pore size for biopolymers
- Manufacturing process fully ISO 9001-certified

### Peptide Hormones

Column: PerfectSil 300 C4 5 µm 250 x 4.6 mm
Flow: 1.0 ml/min
Inj.volume: 10 µl
Eluent: A: 0.1 % TFA/water
B: 0.09 % TFA in ACN:water 90:10 (v/v)
Gradient: 0 min: A:B 90:10 linear to
8 min: A:B 75:25 linear to
14 min: A:B 70:30 isocratic to
15-20 min equilibration A:B 90:10
Detection: UV @ 215 nm

Analytes:
1 dead time marker / inj.
2 vasotocine
3 vasopressine
4 isotocine
5 oxytocine




### PerfectSil™ 300 — Technical Data

| chemistry | code | particle size | pore size | surface area | pore volume | carbon contents | silica purity | end-capping |
|---|---|---|---|---|---|---|---|---|
| PerfectSil 300 Sil | **1450** | 5 µm | 300 Å | 100 $m^2/g$ | 1.05 ml/g | - | 99.999 | - |
| PerfectSil 300 Sil | **1840** | 10 µm | 300 Å | 100 $m^2/g$ | 1.05 ml/g | - | 99.999 | - |
| PerfectSil 300 Sil | **1845** | 15-20 µm | 300 Å | 100 $m^2/g$ | 1.05 ml/g | - | 99.999 | - |
| PerfectSil 300 ODS C18 | **1455** | 5 µm | 300 Å | 100 $m^2/g$ | 1.05 ml/g | 9.0 % | 99.999 | + |
| PerfectSil 300 ODS C18 | **1805** | 10 µm | 300 Å | 100 $m^2/g$ | 1.05 ml/g | 9.0 % | 99.999 | + |
| PerfectSil 300 ODS C18 | **1810** | 15-20 µm | 300 Å | 100 $m^2/g$ | 1.05 ml/g | 9.0 % | 99.999 | + |
| PerfectSil 300 C4 | **1460** | 5 µm | 300 Å | 100 $m^2/g$ | 1.05 ml/g | 3.0 % | 99.999 | + |
| PerfectSil 300 C4 | **1830** | 10 µm | 300 Å | 100 $m^2/g$ | 1.05 ml/g | 3.0 % | 99.999 | + |
| PerfectSil 300 C4 | **1835** | 15-20 µm | 300 Å | 100 $m^2/g$ | 1.05 ml/g | 3.0 % | 99.999 | + |
| PerfectSil 300 C8 | **1465** | 5 µm | 300 Å | 100 $m^2/g$ | 1.05 ml/g | 5.0 % | 99.999 | + |
| PerfectSil 300 C8 | **1820** | 10 µm | 300 Å | 100 $m^2/g$ | 1.05 ml/g | 5.0 % | 99.999 | + |
| PerfectSil 300 C8 | **1825** | 15-20 µm | 300 Å | 100 $m^2/g$ | 1.05 ml/g | 5.0 % | 99.999 | + |
| PerfectSil 300 Diol | **1858** | 5 µm | 300 Å | 100 $m^2/g$ | 1.05 ml/g | 5.0 % | 99.999 | - |

### Part-No.

□□□.□□.□□□□.□

Column length [mm]
Column-ID [mm]
Materialcode
N: new, R: refill

**Example:**
HPLC-Column (New)
250 x 4.6 mm
PerfectSil 300 ODS 5 µm
**=> 250.4,6.1455.N**

| length x ID | 5 µm | | 10 µm | |
|---|---|---|---|---|
| | New | Refill | New | Refill |
| 50 x 2.1mm | 154.-- | 113.-- | 154.-- | 113.-- |
| 100 x 2.1mm | 192.-- | 151.-- | 192.-- | 151.-- |
| 125 x 2.1mm | 213.-- | 172.-- | 213.-- | 172.-- |
| 150 x 2.1mm | 225.-- | 185.-- | 225.-- | 185.-- |
| 200 x 2.1mm | 238.-- | 200.-- | 238.-- | 200.-- |
| 250 x 2.1mm | 248.-- | 205.-- | 248.-- | 205.-- |
| 50 x 3.0mm | 149.-- | 121.-- | 149.-- | 121.-- |
| 100 x 3.0mm | 179.-- | 149.-- | 169.-- | 139.-- |
| 125 x 3.0mm | 185.-- | 151.-- | 174.-- | 141.-- |
| 150 x 3.0mm | 200.-- | 167.-- | 185.-- | 152.-- |
| 200 x 3.0mm | 210.-- | 175.-- | 190.-- | 155.-- |
| 250 x 3.0mm | 215.-- | 177.-- | 197.-- | 159.-- |
| 20 x 4.0mm | 130.-- | 108.-- | 116.-- | 94.-- |
| 33 x 4.0mm | 143.-- | 119.-- | 128.-- | 104.-- |
| 40 x 4.0mm | 154.-- | 132.-- | 138.-- | 116.-- |
| 50 x 4.0mm | 162.-- | 136.-- | 145.-- | 119.-- |
| 60 x 4.0mm | 169.-- | 142.-- | 151.-- | 124.-- |
| 75 x 4.0mm | 176.-- | 148.-- | 157.-- | 129.-- |
| 100 x 4.0mm | 183.-- | 154.-- | 164.-- | 135.-- |
| 125 x 4.0mm | 189.-- | 159.-- | 169.-- | 139.-- |
| 150 x 4.0mm | 195.-- | 163.-- | 174.-- | 152.-- |
| 200 x 4.0mm | 207.-- | 175.-- | 185.-- | 153.-- |
| 250 x 4.0mm | 217.-- | 185.-- | 194.-- | 162.-- |
| 300 x 4.0mm | 246.-- | 203.-- | 222.-- | 179.-- |
| 20 x 4.6mm | 137.-- | 115.-- | 124.-- | 102.-- |
| 33 x 4.6mm | 150.-- | 126.-- | 135.-- | 111.-- |
| 40 x 4.6mm | 162.-- | 140.-- | 146.-- | 124.-- |
| 50 x 4.6mm | 170.-- | 144.-- | 153.-- | 127.-- |
| 60 x 4.6mm | 178.-- | 151.-- | 160.-- | 133.-- |
| 75 x 4.6mm | 185.-- | 157.-- | 167.-- | 139.-- |
| 100 x 4.6mm | 192.-- | 163.-- | 173.-- | 144.-- |
| 125 x 4.6mm | 198.-- | 168.-- | 179.-- | 149.-- |
| 150 x 4.6mm | 205.-- | 173.-- | 185.-- | 153.-- |
| 200 x 4.6mm | 217.-- | 185.-- | 196.-- | 164.-- |
| 250 x 4.6mm | 227.-- | 195.-- | 205.-- | 173.-- |
| 300 x 4.6mm | 265.-- | 222.-- | 246.-- | 203.-- |

all prices in EUR excluding VAT

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