MZ ANALYSENTECHNIK

PerfectSil® Target HD

Reversed-Phase with Extended pH-Stability

Some applications in modern reversed-phase-HPLC require pH-conditions, under which most of today's silica-based stationary phase materials show degradation. Having those applications in mind, we developed **PerfectSil® Target HD**, enabling permanent operation under conditions from pH = 2-11 without any noticeable loss of performance or sign of degradation.

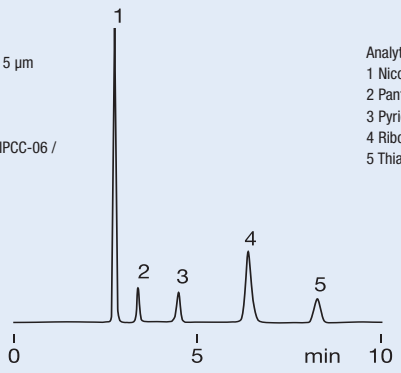
PerfectSil® Target HD is based upon the same highly pure silica skeleton as **PerfectSil® Target**, which is surface-shielded against basic and acidic degradation by a special pre-treatment and a complete multiple-step endcapping procedure. The uniform reversed-phase chemistry in combination with its fully accessible 100 Å-pore-system, an optimized packing procedure and our state-of-the-art stainless-steel-column-hardware enables us to produce and deliver HPLC-columns at the highest level of quality.

- Elaborated endcapping
- Maximum shielding of silica-surface
- pH-Stable from pH = 2-11
- Excellent chemical stability
- Extended usability range
- Outstanding reproducibility between batch-to-batch and column-to-column
- Excellent peak symmetries for basic substances
- Enables to employ extremely steep gradients

Technical Data	Target HD
pore size	100 Å
pore volume	1.1 cm^3/g
surface area (BET)	450 m^2/g
carbon contents	ODS-3 HD: 25.0 % C8 HD: 15.0 %
pH-stability	pH 2-11
endcapping	complete
silica purity	> 99.999 %
metal impurities	< 5 ppm

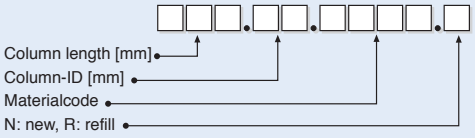
Vitamins

Material: PerfectSil Target ODS-3 HD 5 µm
Column: 150 x 4.6 mm
Flow-rate: 1.0 ml/min
Inj.volume: 5 µl
Eluent: ACN : 0.2% H_3PO_4 + 5mM IPCC-06 / 10:90
Temp.: 40 °C
Detection: UV @ 210 nm



Analytes:
1 Nicotinamide
2 Pantothenic acid
3 Pyridoxine
4 Riboflavin phosphate
5 Thiamine

Part-No.



Materialcode

PerfectSil Target ODS-3 HD	3 µm =	**0833**
PerfectSil Target ODS-3 HD	5 µm =	**0831**
PerfectSil Target ODS-3 HD	10 µm =	**0830**
PerfectSil Target C8 HD	3 µm =	**0843**
PerfectSil Target C8 HD	5 µm =	**0845**

Example: HPLC-column (new) 150x4.0 mm PerfectSil Target ODS-3 HD 3 µm
=> Part-No.: 150.4,0.0833.N

Length x ID [mm]	3 µm New	3 µm Refill	5/10 µm New	5/10 µm Refill
50 x 2.1	195.--	154.--	154.--	113.--
100 x 2.1	251.--	210.--	192.--	151.--
125 x 2.1	256.--	215.--	213.--	172.--
150 x 2.1	270.--	230.--	225.--	185.--
200 x 2.1	287.--	249.--	238.--	200.--
250 x 2.1	307.--	264.--	248.--	205.--
50 x 3.0	169.--	141.--	149.--	121.--
100 x 3.0	192.--	162.--	179.--	149.--
125 x 3.0	200.--	167.--	185.--	151.--
150 x 3.0	210.--	177.--	200.--	167.--
200 x 3.0	230.--	195.--	210.--	175.--
250 x 3.0	243.--	205.--	215.--	177.--
20 x 4.0	151.--	129.--	130.--	108.--
33 x 4.0	167.--	143.--	143.--	119.--
40 x 4.0	179.--	157.--	154.--	132.--
50 x 4.0	189.--	163.--	162.--	136.--
60 x 4.0	197.--	170.--	169.--	142.--
75 x 4.0	205.--	177.--	176.--	148.--
100 x 4.0	213.--	184.--	183.--	154.--
125 x 4.0	220.--	190.--	189.--	159.--
150 x 4.0	227.--	195.--	195.--	163.--
200 x 4.0	241.--	209.--	207.--	175.--
250 x 4.0	253.--	221.--	217.--	185.--
300 x 4.0	287.--	244.--	246.--	203.--
20 x 4.6	160.--	138.--	137.--	115.--
33 x 4.6	175.--	151.--	150.--	126.--
40 x 4.6	189.--	167.--	162.--	140.--
50 x 4.6	198.--	172.--	170.--	144.--
60 x 4.6	208.--	181.--	178.--	151.--
75 x 4.6	216.--	188.--	185.--	157.--
100 x 4.6	224.--	195.--	192.--	163.--
125 x 4.6	231.--	201.--	198.--	168.--
150 x 4.6	239.--	207.--	205.--	173.--
200 x 4.6	253.--	221.--	217.--	185.--
250 x 4.6	265.--	233.--	227.--	195.--
300 x 4.6	289.--	246.--	265.--	222.--

all prices in EUR excluding VAT

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