

Biochromatography - Accessories

In-line Immobilized Enzyme Digestion Cartridges

On-line Immobilized Enzyme Digestion Cartridges enable protein researchers to easily digest samples in minutes rather than hours. Each cartridge contains a high density of immobilized enzymes conjugated to poly-(styrene-divinyl) benzene (PSDVB)-based 5µm outer diameter microspheres. Connection of the Immobilized Enzyme Digestion Cartridges in-line reduces the potential for contamination due to handling. Coupling this system to an LC or LC-MS makes the once tedious task of protein sequencing from tryptic in-gel digests simpler and less-time consuming. The standards 10-32 connections make the cartridges compatible with all LC systems.

On-line Immobilized Enzyme Digestion Cartridges can be used for :

- Protein sequencing and identification
- Post-translational modification characterization
- Protein-protein interaction studies

Flow-through digestion dramatically increases your protein sample's time-on-enzyme, therefore improving digestion kinetics and efficiency. Compared to traditional in-gel digests that take 8 - 24 hours, flow-through digestion is typically completed within 60 minutes.



In-line Immobilized Enzyme Digestion Cartridge

P/N	Description	Unit
CL2880	In-line Immobilized Trypsin Digestion Cartridge	1
CL2881	In-line Immobilized Trypsin Digestion Cartridge	3
CL2890	In-line Immobilized Glu-C Digestion Cartridge	1
CL2891	In-line Immobilized Glu-C Digestion Cartridge	3

Specifications

Volume :	12µL
Digestion time :	5 - 60 minutes
Flow rate :	0.1 - 1.0µL/min
Pressure range :	1 - 1000psi
Temperature range :	37°C optimally (25 - 40°)
Load concentration :	1 - 500 pmol/µL
Enzymes available :	Trypsin and Glu-C (Protease V8)



Biochromatography - Accessories

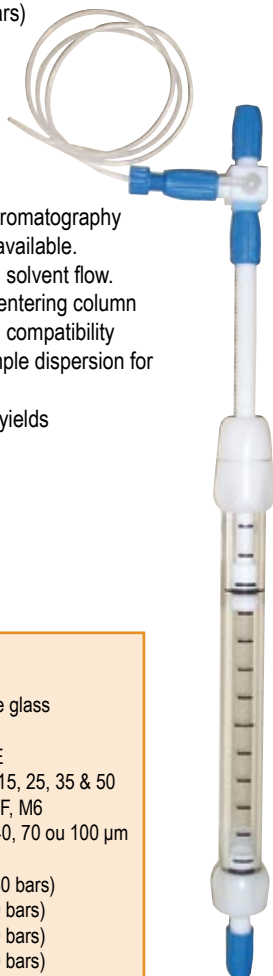
Glass columns

Precision borosilicate glass columns for low and mid-pressure liquid chromatography

- Pressure rating to 1200 psi (80 bars)
- Solvent resistant
- Biocompatible
- Fixed or adjustable height
- Robust and easy to use

Intended use

- ◆ Low to medium pressure liquid chromatography
- ◆ Fixed and adjustable end pieces available.
- ◆ Minimal dead volume and smooth solvent flow.
- ◆ Minimal sample dispersion when entering column
- ◆ Maximum biological and chemical compatibility
- ◆ System design gives minimal sample dispersion for higher yields
- ◆ Minimum dead volume for higher yields
- ◆ Easy to use



Specifications

Column :	Borosilicate glass
Plunger :	PTFE
Frit :	PTFE & PE
Column diameter (mm) :	3, 6.6, 10, 15, 25, 35 & 50
Connection option :	¼ - 28" UNF, M6
Frits porosity :	5, 10, 25, 40, 70 ou 100 µm
Max pressure :	
3 mm :	1200 psi (80 bars)
6.6 mm :	900 psi (60 bars)
10 mm :	600 psi (40 bars)
15 mm :	300 psi (20 bars)
25, 35 & 50 mm :	150 psi (10 bars)

i.d. (mm)	End fitting	Column length (mm)								Max. length Min. length	
		25	50	100	150	250	400	500	750		1000
3	2 Fixed	25	50	100	150	250					
		25	50	100	150	250					
6.6	2 Fixed	20	70	120	220	370					
		20	70	120	220	370					
	1 Fixed, 1 Adjustable	20	70	120	220	370					
		2.4	2.4	40	140	290					
2 Adjustable	20	70	120	220	370						
	2.4	2.4	2.4	60	210						
10	2 Fixed	20	70	120	220	370	470	720	970		
		20	70	120	220	370	470	720	970		
	1 Fixed, 1 Adjustable	20	70	120	220	370	470	720	970		
		2.4	2.4	40	140	290	390	640	890		
2 Adjustable	20	70	120	220	370	470	720	970			
	2.4	2.4	2.4	60	210	310	560	810			
15	2 Fixed	20	70	120	220	370	470	720	970		
		20	70	120	220	370	470	720	970		
	1 Fixed, 1 Adjustable	20	70	120	220	370	470	720	970		
		2.4	2.4	40	140	290	390	640	890		
2 Adjustable	20	70	120	220	370	470	720	970			
	2.4	2.4	2.4	60	210	310	560	810			
25	2 Fixed	70	120	220	370	470	720	970			
		70	120	220	370	470	720	970			
	1 Fixed, 1 Adjustable	70	120	220	370	470	720	970			
		2.4	40	140	290	390	640	890			
2 Adjustable	70	120	220	370	470	720	970				
	2.4	2.4	60	210	310	560	810				
35	2 Fixed	70	120	220	370	470	720	970			
		70	120	220	370	470	720	970			
	1 Fixed, 1 Adjustable	70	120	220	370	470	720	970			
		2.4	40	140	290	390	640	890			
2 Adjustable	70	120	220	370	470	720	970				
	2.4	2.4	60	210	310	560	810				
50.5	2 Fixed	70	120	220	370	470	720	970			
		70	120	220	370	470	720	970			
	1 Fixed, 1 Adjustable	70	120	220	370	470	720	970			
		2.4	40	140	290	390	640	890			
2 Adjustable	70	120	220	370	470	720	970				
	2.4	2.4	60	210	310	560	810				