



Develosil[®] Guard Filter

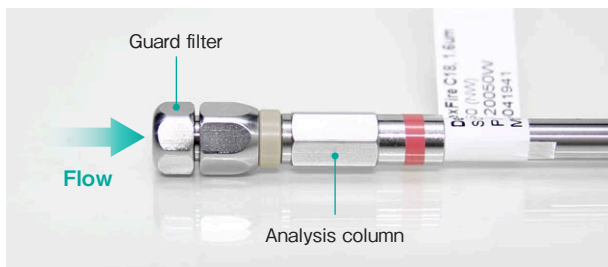
This filter efficiently collects unwanted materials and fine particles included in samples.

◎ Need for a guard filter

Develosil guard filters are used to efficiently collect unnecessary substances and particulates contained in samples and protect HPLC columns. The use of guard filters is a necessary tool to obtain high reproducibility in long-term use.

By using a guard cartridge*¹ that removes even more strongly adsorbed components or a disposable type*², you can perform analyzes with peace of mind.

※1,2 Packing type guard column. Please see the catalog or website for details.

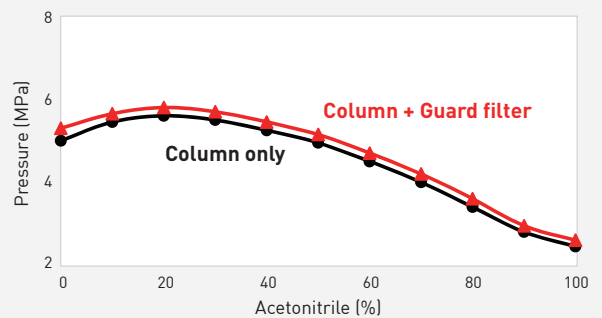


◎ Advantages of direct column connection type

The Develosil guard filter uses a direct column type. This allows dead volume to be kept to a minimum, allowing stable results to be obtained without sacrificing the column's original performance.

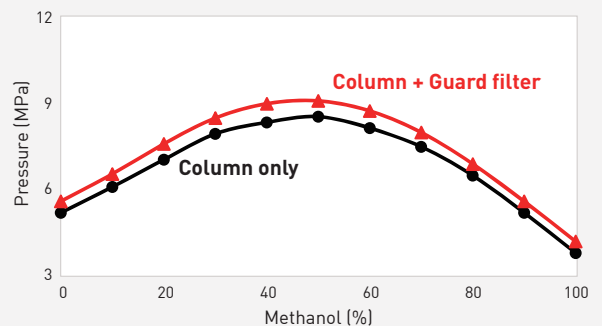
Also, if clogging occurs, you can immediately return to the same analysis simply by replacing the filter.

■ Changes in pressure due to changes in composition ratio (acetonitrile/water)



Column : Develosil HSR AQ C18, 5 μ m(4.6x150mm)
 Mobile phase : Acetonitrile/Water
 Flow rate : 1.0mL/min
 Temperature : 40°C

■ Pressure transition due to composition ratio change(methanol/water)

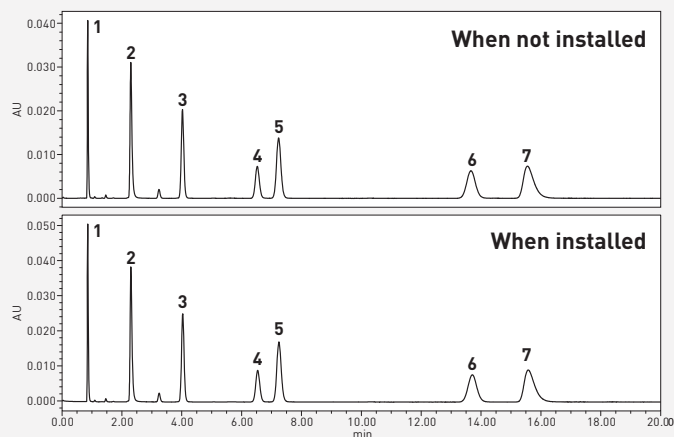


Column : Develosil HSR AQ C18, 5 μ m(4.6x150mm)
 Mobile phase : Methanol/Water
 Flow rate : 1.0mL/min
 Temperature : 40°C

The pressure increase when the Develosil guard filter is installed is extremely small.



Performance comparison when guard filter is installed



Column : Develosil HSR AQ C18, 3 μ m(4.6x75mm)
 Mobile phase : Methanol/Phosphate buffer, pH7=65/35
 Flow rate : 1.0mL/min
 Temperature : 40°C

When not installed

	retention time (min)	Number of theoretical plates	Symmetry factor	degree of separation
Peak 1	0.859	3984	1.06	
Peak 2	2.300	6624	1.08	17.25
Peak 3	4.025	10347	1.05	12.75
Peak 4	6.525	10838	1.28	12.26
Peak 5	7.237	10858	1.24	2.70
Peak 6	13.663	10162	1.27	15.72
Peak 7	15.554	9474	1.09	3.21

When installed

	retention time (min)	Number of theoretical plates	Symmetry factor	degree of separation
Peak 1	0.86	4019	1.23	
Peak 2	2.302	6672	1.26	17.32
Peak 3	4.033	10339	1.09	12.79
Peak 4	6.538	10818	1.06	12.25
Peak 5	7.247	10830	1.08	2.69
Peak 6	13.708	10121	1.06	15.73
Peak 7	15.575	9458	1.27	3.22

There is almost no difference in performance between when the Develosil guard filter is not installed and when it is installed. It greatly contributes to long column life while maintaining the original performance of the column.



Products	Product code	Price
Develosil guard filter (1 unit)	GF28126	18,000円
Spare guard filters (3 units)	GF28155	12,000円

- Develosil is a trademark of Nomura Chemical Co., Ltd.
- The listed price does not include consumption tax.
- This product can only be used with columns connected to our Waters. please note.
- Models, specifications, and prices are subject to change without notice. Please note.



[CONTACT]

