

# The Agilent WinGPC Column Database

#### Introduction

The Agilent WinGPC Column Database is one of the functionalities featured in Agilent WinGPC 1.0. The database collects and summarizes information on every column from available WinGPC projects, enabling users to retrace the entire column history at any time. Stored information includes which eluents were used, how many injections were run, which samples and substances were analyzed, and details of system tests with their plate count. This technical overview presents the column database and all its features.

## **Experimental**

To start using the column database, it must be initialized or indexed. Usually, this step is performed during WinGPC installation. WinGPC analyzes all projects already present and assembles the data in the column database. The search includes all local and connected network drives and so may take a long time. For this reason, an overnight initialization is recommended. Indexing only needs be performed once; all future entries are generated and added automatically. The column database is essentially ordered by the column serial number and can only work correctly if a distinct serial number is assigned to each column. Click the information icon beside the columns in the WinGPC Method window to access the column database. In the Column Information window, all the information that could be found in the database for the current column in the WinGPC method is displayed (Figure 1). The current system test (= system suitability test, SST) is shown in the upper panel with information such as the plate count and pressure at injection time. The complete history of system tests can be toggled by clicking **Show All SST**. The lower panel presents a summary of column use, including the number of injections, overall volume of eluent flushed through the column, and number of eluents.



Figure 1. Column Information window

Click **Config** to access (re)indexing. Here, a complete search can be performed on all drives (e.g., if local indexing was performed first and the network was connected to later), or WinGPC can check known projects again (Figure 2). Specific network drives and paths can be selected, thus constraining the scope of indexing.

ease select the kind of indexing:		
Please select the kind of indexing:		
C Update: Check only known projects	for changes and read cha	nged projects
• Full: Scan all drives for projects and	l index them.	

Figure 2. Indexing window, offering the choice between running an update or a full scan of all drives

Column Details can be reached by clicking **Detailed View** (Figure 3). A list of all columns found in the database is shown on the left, sorted by serial numbers. Click the relevant column header and sort by parameters such as column name. On the right, eluents and injected samples are listed for the current column. Combination refers to columns that have been run in a column set together with the current column.

SN	Column name	Column length [cm]	Column diameter [cm]	^	Colum SN:	n: PSS : 2082	Suprema 3 853; Dime	0 µm 300 nsion (Le	0Å ngth×Diam	neter): 30	×0.8 cm					P	rint
2062202 P	PSS SDV 3µm 1000 A	30.0	0.8		Solven	olvents (1):											
2052211	PSS MCX 5µm 1000Å	30.0	0.8			Eluen	t	Volum	e (ml)	Sample	:5						
2062501	PSS SDV 3µm 10000 A	25.0	0.5		Þ.	0.1 M M											
2070253	PSS Suprema 5 µm 100 Å	30.0	0.8														
2070341	PSS Proteema 5 µm 100 Å	30.0	0.8														
2070403	PSS SDV, 5µm VS	5.0	0.8														
2070411	Gram 10µm 30A	30.0	0.8														
2071251	Glass packed guard 80+	5.0	0.8	-					(72)								
2071962	PSS PFG 5µ Guard	5.0	0.8			Sample	es in 0.1 M	NaCl aq	. (6):								_
2072203	PSS SDV 5µm 10e6Å	5.0	0.8				Sample		Туре		Flow Rat	e	Volume	(ml)			
2072604	PSS SDV 5 µm, 1.000 Å	30.0	0.8				Most 11	lack 0	Samola		(,	1.00		01.4			
2080801	PSS SDV Iin XL	30.0	0.8			Ľ	Vial 21	G - 1	Sample			1.00		41.0			
2081502	SDV 10*4	30.0	0.8				Vial 21	6.2	Sample			1.00		41.3			
2081651	PSS Suprema HDC 20µ	30.0	0.8				Vial 31	hillula	Calibratio	•		1.00		41.4			
			0.8				Vial 31	hillula	Calibratio			1.00		41.5			
2090511	PSS GRAM 10µm 30Å	30.0	0.8				Vial 11	Nank 0	Sample		1.00		415				
2090726	PSS SDV 5µ Precolumn	5.0	0.8														
2091254	PSS Suprema 10 µm 10.0	30.0	20.0														
2091256	PSS Suprema 10000	30.0	0.8		Combin	abinations (1):											
2091951	PSS Suprema 30 A	30.0	0.8														_
2091952	PSS Suprema 1000 A	30.0	0.8			Eluen	t	1. SN		1. Nam	e	2. SN		2. Name		3. SN	
2091953	PSS Suprema 1000 A	30.0	0.8			0.1.51.5	Incl. no.	1		pss sniv	1 um G	3083951	1	DCC Survey	in 1	2022051	,
2092603	PSS SDV 5µm 10e5Å	5.0	0.8			0.21111	aci aq.	-		100 001	o prir d			Trop pupie			-
2092723	PSS GRAM 10µm Guard	5.0	0.8														
2092811	PSS GRAM 10µm 3 000Å	30.0	0.8														
				- 1	<												

Figure 3. Column Details window

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### Conclusion

The Agilent WinGPC Column Database provides all available information about a specific column and enables review of the entire column history to assess current performance. The database is a completely standalone, background process and cultivates itself once it has been initialized. For this reason, it is important to assign meaningful serial numbers to all columns and to use all WinGPC method and sample parameters, including specific substance characteristics listed in the sample editor.

