



Thermo Scientific
XPert Troubleshooting Solution



Complete solution for Automated HPLC Troubleshooting

Pre-Programmed Workflows • Reference Column • Test-Samples

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XPert Troubleshooting Solution

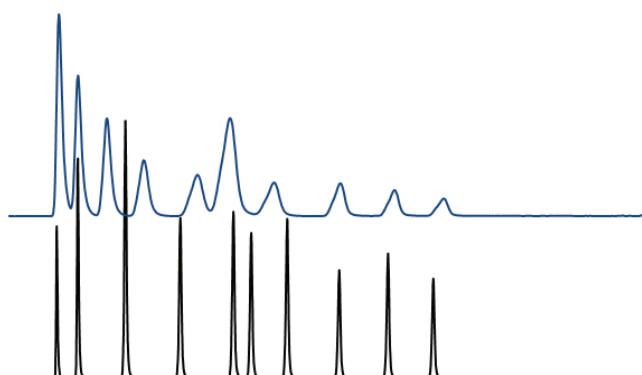
The Thermo Scientific™ XPert Troubleshooting Solution is a complete kit of test column, standards and pre-programmed methods with instant report capabilities to very easily and very quickly execute LC and UHPLC method troubleshooting. Whenever it is unclear for what reason a method is failing, XPert will help quickly identifying the most likely source for the deviation. Even less experienced chromatographers can respond very fast to unusual observations as immediately good recommendations and tips are offered by the pre-programmed report.

Benefits of the XPert Troubleshooting Solution Include:

- Fast and easy method troubleshooting
- Instant improvement tips and recommendations
- Support for UltiMate 3000 systems
- Thermo Scientific™ Dionex™ Chromeleon™ 7.2 Chromatography Data System software powered eWorkflows for fast and easy setup
- Isocratic and gradient test
- Complete with reference standards and LC and UHPLC compatible test column
- Designed for Pharma QC but also discovery and development applications



Examples of the solution



A passed run (black trace), using the XPert Troubleshooting Solution, and failed run (blue trace).

J27					
1	A	B	C	D	E
2	XPert Performance Test Results				
3	Injection Details				
4	Injection Name	9 AP + uracil, gradient test	Run Time (min):	6,50	
5	Vial Number	RAS	Injection Volume:	1,00	
6	Injection Type	Check Standard	Channel:	UV_VIS_1	
7	Injection Counter	n.a.	Wavelength:	245,0	
8	Instrument Method	XPert_RP_RS_LPG_DAD	Bandwidth:	4	
9	Processing Method	Acoucore_XL_C18_100x3_gradient_LPG_RS	Dilution Factor:	1,0000	
10	Injection Date/Time	01 Oct 13 14:48	Sample Weight:	1,0000	
11	XPert Performance Test Result				
12	No.	Name	Ref. Value 1	Ref. Value 2	Test Result
13	1	Pump Pressure Stability	139,200	n.a.	Passed
14	2	Peak Number Total	10,000	n.a.	Passed
15	3	Retention Time	3,500	4,500	Failed
16	4	RSD of Peak Retention	0,300	n.a.	Passed
17	5	Resolution (USP)	3,000	n.a.	Passed
18	6	Peak Asymmetry	0,250	1,200	Failed
19	7	RSD of Peak Areas	0,050	n.a.	Failed
20	8	Peak Width (50%)	0,500	n.a.	Passed
21	9	Capacity Factor	7,000	9,500	Passed
22	Number of executed test cases: 9			Total Result:	Failed
23					
24	Possible Cause		Solution		
25	1	Pump Pressure Stability			
26	2	Peak Number			
27	2	Retention Time			
28	2	Retention Time			
29	2	Retention Time			
30	3	Retention Time			
31	3	Retention Time			
32	4	RSD of Peak Retention			
33	5	Resolution (USP)			
34	6	Peak Asymmetry			
35	6	Peak Asymmetry			
36	7	RSD of Peak Areas	1. Variation of sum of peak areas - Sampler problem 2. Some peak areas vary - Sample degradation		
37	8	Peak Width	- Check sample filling height and sampling height of injector needle - Flush out sampler fluidics, replace spare part if necessary (see OI) - Check system pressure stability and short		
38	8	Peak Width			
39	9	Capacity Factor			

Instant reporting providing improvement tips and recommendations.

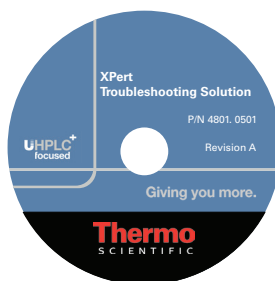
#	UV_VIS_1	Name	*Test protocol	*Pressure Stabilit	*RT min [min]	*RT max	*Limit for RSD	*min. Resoluti	*Asymmetr	*Asymm	*Limit for RSD
1		Blank		1,100	3,5	4,5	0,3	3,00	1,20	0,95	0,50
2		9 AP + uracil, gradient test	XPert	1,100	3,5	4,5	0,3	3,00	1,20	0,95	0,50
3		9 AP + uracil, gradient test	XPert	1,100	3,5	4,5	0,3	3,00	1,20	0,95	0,50
4		9 AP + uracil, gradient test	XPert	1,100	3,5	4,5	0,3	3,00	1,20	0,95	0,50

Customizable test limits powered by Chromeleon CDS Custom Variables.

Ordering Information

To order, use the following part numbers and contact your local Thermo Scientific office or distributor nearest you. In the U.S., call (800) 346-6390. In other regions, refer to the phone numbers below.

XPert Troubleshooting Solution	Part Number
5 x XPert isocratic test mix	
5 x XPert gradient test mix	
1 reference column (Thermo Scientific Accucore XL C18, 3 x 100 mm, 4 µm)	6200.0001
Supporting documents and Chromeleon	
7.2 CDS methods on CD-ROM	



For More Information, visit:

www.thermoscientific.com/applicationkits

www.thermoscientific.com/uhplc

www.thermoscientific.com/accucore

www.thermoscientific.com/chromatography

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USA and Canada +1 800 332 3331
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China +86 21 68654588 +86 10 84193588
+86 20 83145199 800 810 5118
India +91 22 6742 9494 +91 27 1766 2352
Australia 1 300 735 292 (free call domestic)
New Zealand 0800 933 966 (free call domestic)
All Other Enquiries +44 (0) 1928 534 050

Technical Support
North America +1 800 332 3331
Outside North America +44 (0) 1928 534 440

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