

 FlexFire
Fusion



Fusion of past and present

FlexFire Fusion was born as a successor to the Develosil series.

FlexFire Fusion pursued the maximum performance and cost performance, mainly for productivity in HPLC.

Using FlexFire as a platform, FlexFire Fusion opens a new door that connects the past and the present to the future.





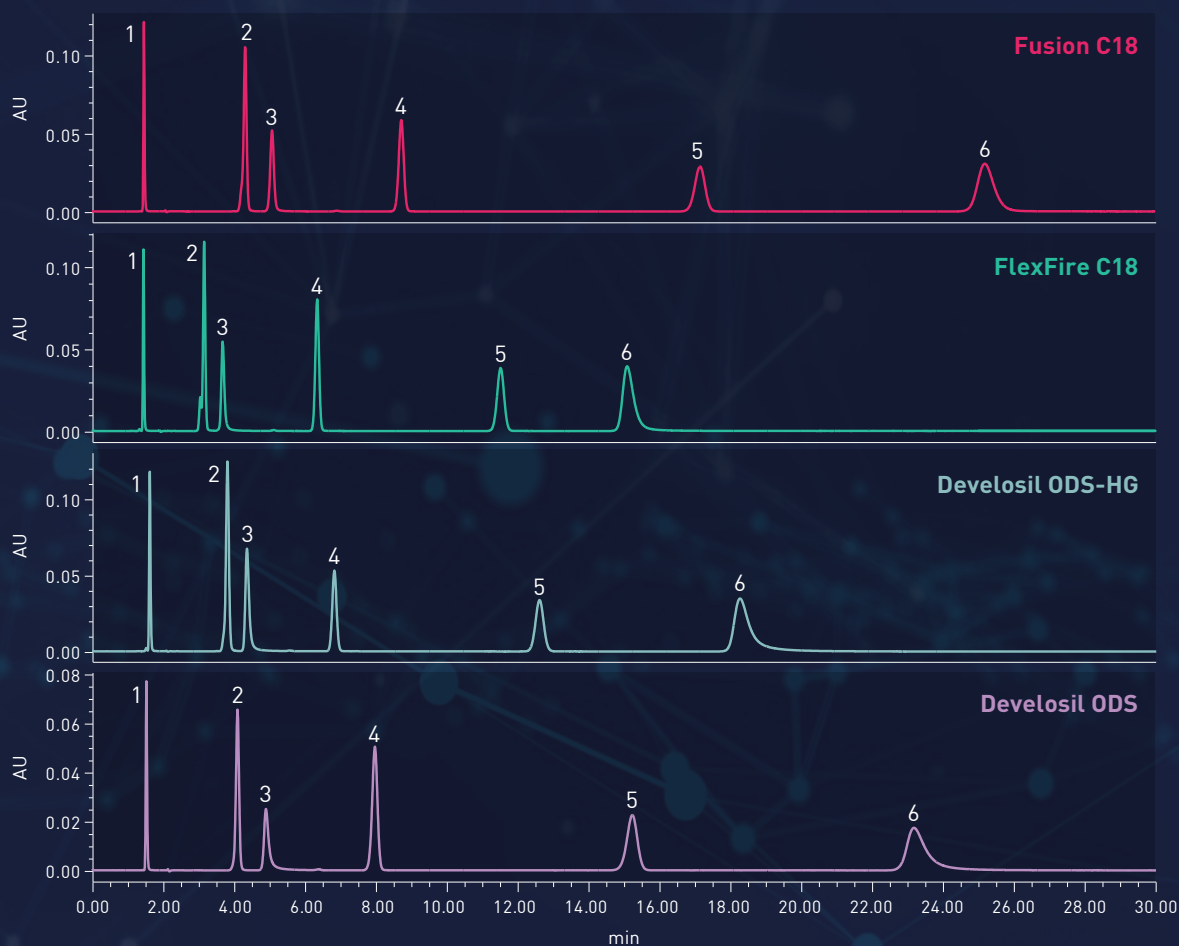
FlexFire

Fusion

Raising the base material

	Fusion C30	Fusion C18	Fusion C18RS	Fusion C8	Fusion C4	Fusion Bio C4	Fusion HILIC
Pore diameter	100Å	100Å	150Å	100Å	100Å	300Å	100Å
Surface area	300m ² /g	300m ² /g	200m ² /g	300m ² /g	300m ² /g	120m ² /g	300m ² /g
Pore volume	0.8mL/g	0.8mL/g	0.8mL/g	0.8mL/g	0.8mL/g	0.8mL/g	0.8mL/g
Carbon (%)	17%	18%	12%	12%	8%	4%	—
Particle size (µm)	2, 3, 5µm	2, 3, 5µm	2, 3, 5µm	2, 3, 5µm	2, 3, 5µm	2, 3, 5µm	2, 3, 5µm
pH range	pH1-11	pH1-11	pH1-11	pH1-11	pH1-10	pH1-10	pH1-7
Temp. range (°C)	~ 80°C	~ 80°C	~ 80°C	~ 80°C	~ 80°C	~ 80°C	~ 80°C
Max Pressure (bar)	2µm: 1,000bar 3µm: 600bar 5µm: 400bar	2µm: 1,000bar 3µm: 600bar 5µm: 400bar	2µm: 1,000bar 3µm: 600bar 5µm: 400bar	2µm: 1,000bar 3µm: 600bar 5µm: 400bar	2µm: 1,000bar 3µm: 600bar 5µm: 400bar	2µm: 1,000bar 3µm: 600bar 5µm: 400bar	2µm: 1,000bar 3µm: 600bar 5µm: 400bar
USP category	L62	L1	L1	L7	L26	L26	L3

The Premium Standard



Conditions;

Column: **FlexFire Fusion C18**, 5µm (4.6x150mm)
FlexFire C18, 5µm (4.6x150mm)
Develosil ODS-HG, 5µm (4.6x150mm)
Develosil ODS, 5µm (4.6x150mm)

Mobile phase: 10mM Phosphate buffer, pH7.0/Methanol=30/70
 Flow rate: 1.0mL/min
 Temperature: 40°C
 Detection: UV254nm
 Sample: 1. Uracil / 2. Butylparaben / 3. Propranolol /
 4. Naphthalene / 5. Acenaphthene / 6. Amitriptyline

Injection volume: 1.0µL
 System: Waters alliance

Effects of basic compounds

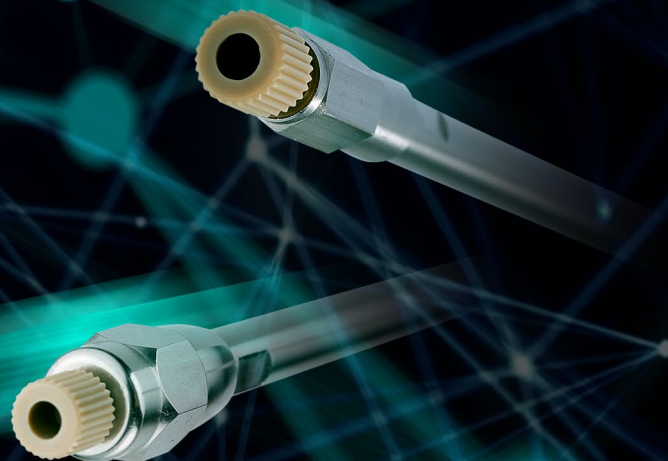
	USP Tailing factor	
	Propranolol	Amitriptyline
FlexFire Fusion C18	1.03	1.09
FlexFire C18	1.25	1.39
Develosil ODS-HG	1.36	1.73
Develosil ODS	1.71	1.86

Work Efficiency - Alkyl Chain Transfer -

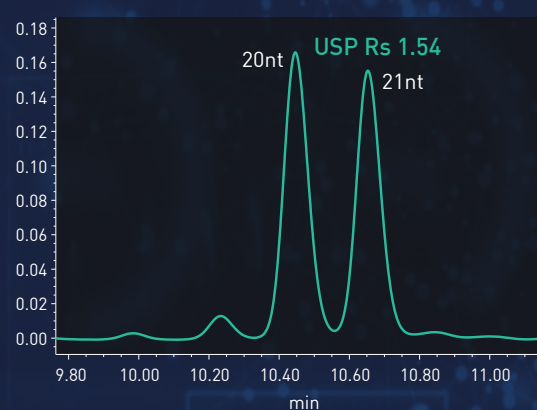
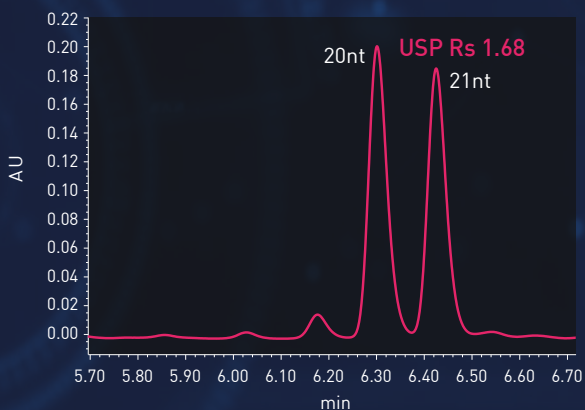


Conditions;

- Column: **FlexFire Fusion C30**, 5 μ m (4.6x150mm)
FlexFire Fusion C18, 5 μ m (4.6x150mm)
FlexFire Fusion C18RS, 5 μ m (4.6x150mm)
FlexFire Fusion C8, 5 μ m (4.6x150mm)
FlexFire Fusion C4, 5 μ m (4.6x150mm)
- Mobile phase: Water/Methanol=60/40
Flow rate: 1.0mL/min
Temperature: 40°C
Detection: UV365nm
Sample: 1. Aflatoxin G2 (25 μ g/mL) 2. Aflatoxin G1 (25 μ g/mL)
3. Aflatoxin B2 (25 μ g/mL) 4. Aflatoxin B1 (25 μ g/mL)
Injecton volume: 5.0 μ L
System: Waters Arc HPLC



Work Efficiency -UHPLC Transfer-



Conditions:

Column: **FlexFire Fusion Bio C4, 3µm** (2.0x50mm)
FlexFire Fusion Bio C4, 5µm (2.0x50mm)

Mobile phase: A) 100mM HFIP + 10mM TEA
 B) Methanol

Temperature: 60°C
 Detection: UV260nm
 Sample: Oligo nucleotide (10-40nt)
 Injection volume: 0.5µL
 System: Waters ACQUITY UPLC H-CLASS Plus
 Mixer: 100µL

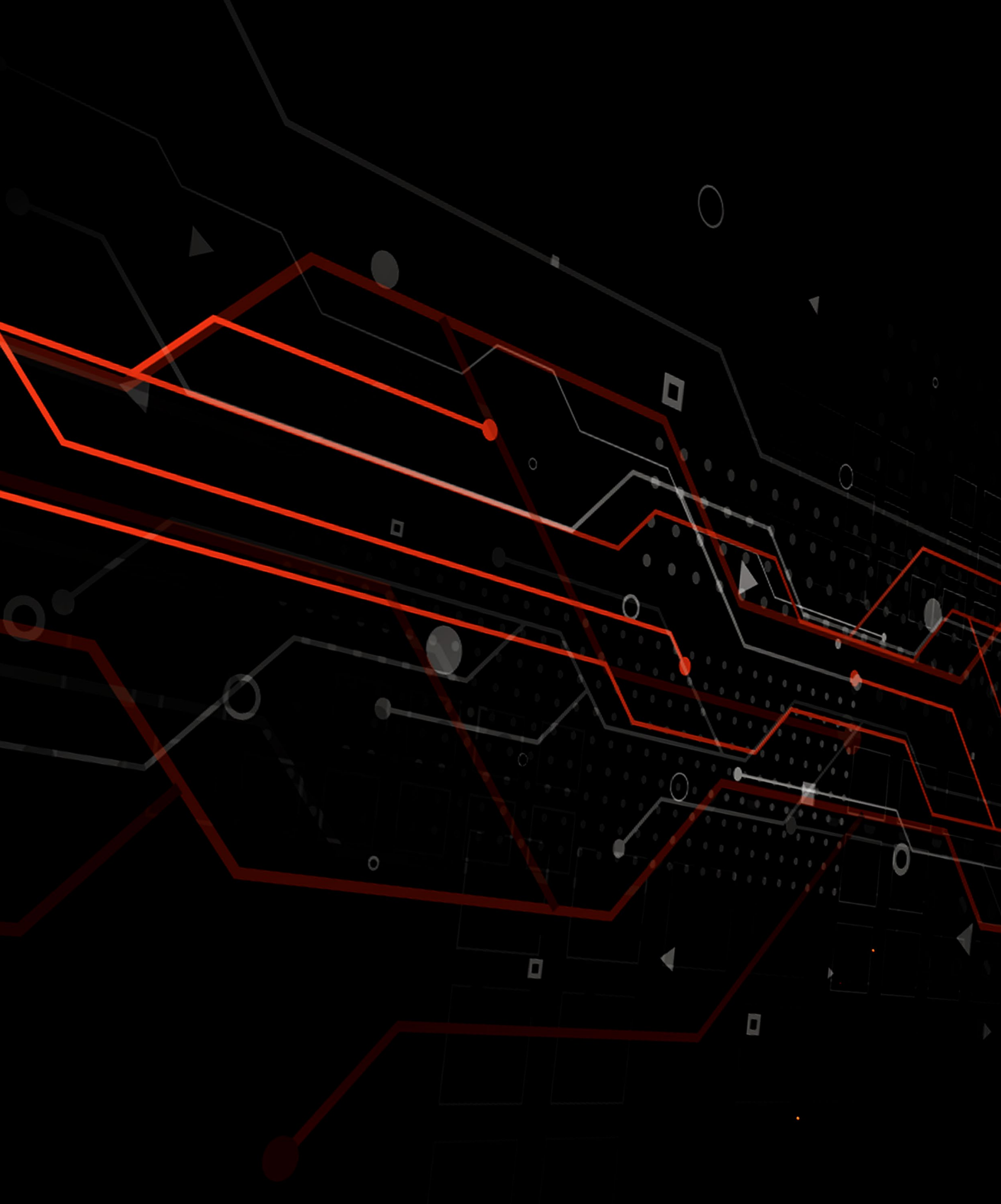
Gradient:

3µm				
min	mL/min	%A	%B	Curve
0.00	0.3	95	5	
8.60	0.3	80	20	5
8.61	0.3	95	5	5

5µm				
min	mL/min	%A	%B	Curve
0.00	0.2	95	5	
14.33	0.2	80	20	5
14.35	0.2	95	5	5

Visualize all information





【 CONTACT 】



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