

Waters SystemsQT Sample Management for the ACQUITY UPLC System with ACQUITY PDA, ACQUITY PDA e λ , ACQUITY 2996 PDA, ACQUITY TUV, and ACQUITY ELS Detectors

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Vial Positions and Sample Concentrations for the 3-mm Flow Cell

The following table shows vial positions and sample concentrations for the ACQUITY PDA and ACQUITY PDA e λ detectors using an ANSI 48-well, 2-mL vial-holder plate.

Note: Place the sample tray in plate position 2.

Solution Number	Plate Position 2/ Vial Number	3-mm Flow Cell
		Sample Concentration (Use UPLC 3mm and 5mm Absorbance Test Solutions Kit p/n 700004380.)
1	F1	Caffeine 0.030 mg/mL
2	F2, E2	Caffeine 0.090 mg/mL
3	F3	Caffeine 0.120 mg/mL
4	D4, E4, F4	Caffeine 0.150 mg/mL
5	F5	Caffeine 0.240 mg/mL
6	D6, E6, F6	Caffeine 0.300 mg/mL
7	F7	Caffeine 0.480 mg/mL
8	A2	Caffeine 0.600 μ g/mL
9	A3	Caffeine 12.000 mg/mL
10	B8	12.0 μ g/mL Mix ^a
11	A1, A4, A5, A6, B1	Blank (10:90 acetonitrile/water)

a. A 7-component mixture (in 10:90 acetonitrile/water) of 12.0 μ g/mL each of: 2-acetylfuran, acetanilide, acetophenone, propiophenone, benzophenone, valerophenone, and butyl paraben.

Vial Positions and Sample Concentrations for the 5-mm Flow Cell

The following table shows vial positions and sample concentrations for the ACQUITY TUV, ACQUITY PDA, and ACQUITY PDA eλ detectors using an ANSI 48-well, 2-mL vial-holder plate.

Note: Place the sample tray in plate position 2.

Solution Number	Plate Position 2/ Vial Number	5-mm Flow Cell
		Sample Concentration (Use UPLC 3mm and 5mm Absorbance Test Solutions Kit p/n 700004380.)
1	F1	Caffeine 0.030 mg/mL
2	F2, E2	Caffeine 0.090 mg/mL
3	D6, E6, F3	Caffeine 0.120 mg/mL
4	D4, E4, F4	Caffeine 0.150 mg/mL
5	F5	Caffeine 0.240 mg/mL
6	F6	Caffeine 0.300 mg/mL
7	F7	Caffeine 0.480 mg/mL
8	A2	Caffeine 0.600 µg/mL
9	A3	Caffeine 12.000 mg/mL
10	B8	12.0 µg/mL Mix ^a
11	A1, A4, A5, A6, B1	Blank (10:90 acetonitrile/water)

a. A 7-component mixture (in 10:90 acetonitrile/water) of 12.0 µg/mL each of: 2-acetylfuran, acetanilide, acetophenone, propiophenone, benzophenone, valerophenone, and butyl paraben.

Vial Positions and Sample Concentrations for the 10-mm Flow Cell

The following table shows vial positions and sample concentrations for the ACQUITY PDA, ACQUITY PDA eλ, ACQUITY 2996 PDA, ACQUITY TUV, and ACQUITY ELS detectors using an ANSI 48-well, 2-mL vial-holder plate.

Note: Place the sample tray in plate position 2.

Solution Number	Plate Position 2/ Vial Number	10-mm Flow Cell Sample Concentration
		(Use Waters ACQUITY UPLC System OQ/PQ Test Solutions Kit p/n 700002642.)
1	F1	Caffeine 0.010 mg/mL
2	F2, E2	Caffeine 0.030 mg/mL
3	F3	Caffeine 0.040 mg/mL
4	D4, E4, F4	Caffeine 0.050 mg/mL
5	F5	Caffeine 0.080 mg/mL
6	D6, E6, F6	Caffeine 0.100 mg/mL
7	F7	Caffeine 0.160 mg/mL
8	A2	Caffeine 0.200 µg/mL
9	A3	Caffeine 4.000 mg/mL
10	Not used	Not used
11	B8	4.0 µg/mL Mix ^a
12	A1, A4, A5, A6, B1	Blank (10:90 acetonitrile/water)

a. A 7-component mixture (in 10:90 acetonitrile/water) of 4.0 µg/mL each of: 2-acetylfuran, acetanilide, acetophenone, propiophenone, benzophenone, valerophenone, and butyl paraben.

Vial Positions and Sample Concentrations for the 25-mm Flow Cell

The following table shows vial positions and sample concentrations for the ACQUITY PDA, ACQUITY PDA eλ, ACQUITY 2996 PDA, ACQUITY TUV, and ACQUITY ELS detectors using an ANSI 48-well, 2-mL vial-holder plate.

Note: Place the sample tray in plate position 2.

Solution Number	Plate Position 2/ Vial Number	25-mm Flow Cell
		Sample Concentration (Use Waters ACQUITY UPLC System OQ/PQ Test Solutions Kit p/n 700002846.)
1	F1	Caffeine 0.004 mg/mL
2	F2, E2	Caffeine 0.012 mg/mL
3	F3	Caffeine 0.016 mg/mL
4	D4, E4, F4	Caffeine 0.020 mg/mL
5	F5	Caffeine 0.032 mg/mL
6	D6, E6, F6	Caffeine 0.040 mg/mL
7	F7	Caffeine 0.064 mg/mL
8	A2	Caffeine 0.080 µg/mL
9	A3	Caffeine 1.600 mg/mL
10	Not used	Not used
11	B8	4.0 µg/mL Mix ^a
12	A1, A4, A5, A6, B1	Blank (10:90 acetonitrile/water)

a. A 7-component mixture (in 10:90 acetonitrile/water) of 4.0 µg/mL each of: 2-acetylfuran, acetanilide, acetophenone, propiophenone, benzophenone, valerophenone, and butyl paraben.