CLEMASTINE IN RAT PLASMA- OASIS® ON-LINE

2-COLUMN PARALLEL APPROACH OASIS® HLB EXTRACTION COLUMN 2.5 X20mm

HPLC METHOD

LC_1:	Alliance® 2790 - 0.4 mL/min
LC_2:	Waters 515 - 4.0 mL/min
LOADING MOBILE PHASE:	100% Water
ELUTING MOBILE PHASE:	1 min gradient 5% ACN to 95% ACN
LOADING MOBILE PHASE ADDITIVE:	0.5% Formic Acid or NH_4OH
EXTRACTION COLUMN TEMP:	40 °C
SWITCHING VALVE:	Rheodyne LabPro 10 ports, 2 position
MS:	Quatro UltimaTriple Quadrupole
SOURCE:	Electrospray positive
SOURCE TEMPERATURE:	150°C
DESOLVATION GAS:	600L/hr
GAS CELL:	1.5e-3 mbar
CONE VOLTAGE:	20 volts
COLLISION ENERGY:	20

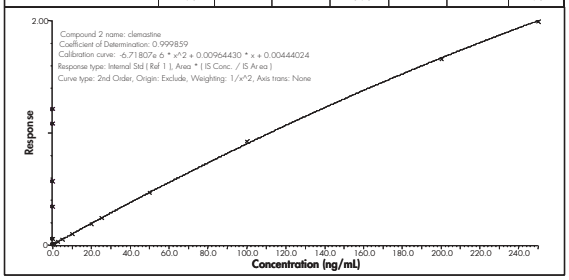
Time	HPLC gradient Flow 0.4mL/min		Valve position
	A	B	Function
0.0	5	9.5	switch 2n position 1 to 2 (elution)
05.			switch 3-position 2 to 1 (loading)
1.0	95	5	
1.7	95	5	
2.0	5	95	switch 2-position 2 to 1 switch 3- position 1 to 2 switch 1- position 1 to 2

A- Acetonitrile + 0.5% Formic Acid or 0.5% NH_4OH

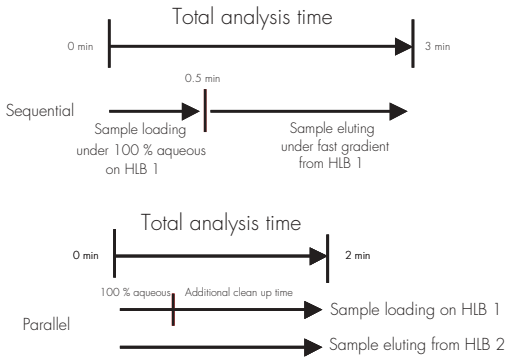
B- Water + 0.5% Formic Acid or 0.5% NH_4OH

CALIBRATION CURVE

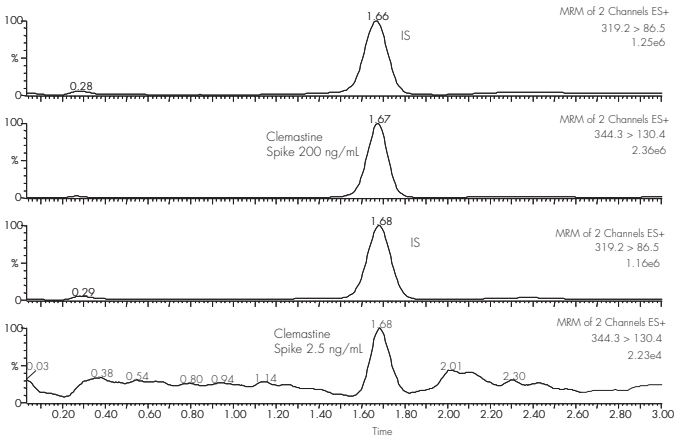
Conc. ng/mL N=6	1.0	2.5	5.0	10.0	100	200	250
Average	1.0	2.5	4.9	9.9	106.7	196.1	246.9
Standard Deviation	0.02	0.1	0.2	0.3	3.4	3.1	3.4
RSD %	1.6	5.0	3.2	3.3	3.1	1.6	1.3



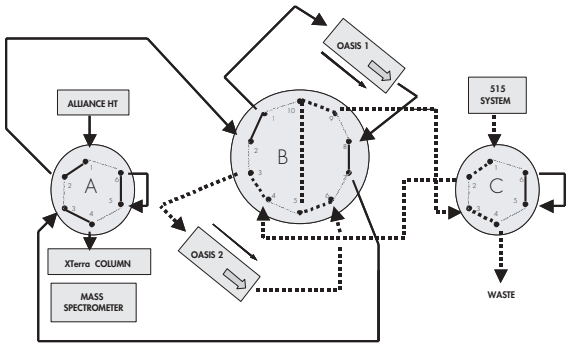
SEQUENTAIL VS. PARALLEL



LOQ CHROMATOGRAM



PARALLEL ON-LINE ANALYSIS



Micromass, Quattro, Alliance, XTerra,Oasis and Waters are trademarks of Waters Corporation. © 2003 Waters Corporation