

ACEPHATE IN RIVER WATER

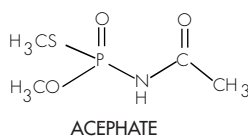
LC CONDITIONS

COLUMN: Atlantis™ dC₁₈, 2.1 x 100 mm, 3 µm
PART NUMBER: 186000295
MOBILE PHASE: 15% Methanol in water
FLOW RATE: 0.2 mL/min
INJECTION VOLUME: 20 µL
TEMPERATURE: 25 °C
INSTRUMENT: Alliance® 2795

MS CONDITIONS

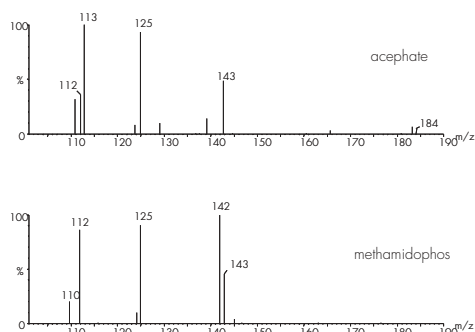
INSTRUMENT: Quattro™
ION SOURCE: Electrospray positive
SOURCE TEMP: 150 °C
DESOLVATION TEMP: 450 °C
CONE GAS: 50 L/hr
DESOLVATION GAS: 500 L/hr
COLLISION GAS: Argon

COMPOUND	MRM	Cone(V)	Coll.Energy(ev)
methamidophos	142±112	27	15
acephate	184±143	20	10

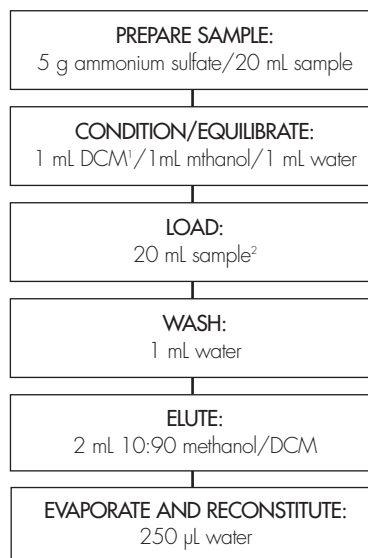


ACEPHATE/METHAMIDOPHOS DAUGHTER ION SPECTRA

200ng/L spiked river water - same injection as MRM data

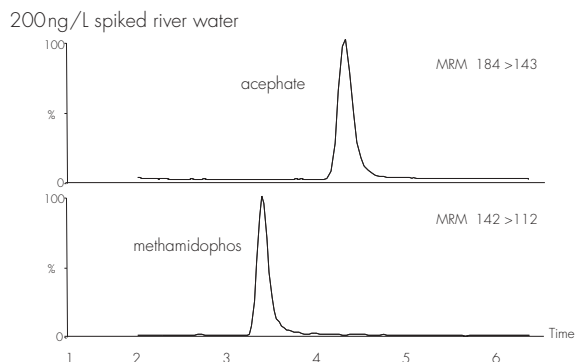


OASIS® HLB EXTRACTION METHOD Oasis® HLB Extraction Cartridge, 6 cc/200 mg



¹ methylene chloride

² 25 mL maximum sample size



ACEPHATE/METHAMIDOPHOS RECOVERY DATA

External standard calculation (n=5)

METHAMIDOPHOS			ACEPHATE		
Spike Level (ng/L)	Recovery ¹	RSD	Spike Level (ng/L)	Recovery ¹	RSD
50	50%	25%	50	92%	12%
200	62%	9.8%	200	91%	5.4%
400	66%	12%	400	90%	15%
800	60%	6.8%	800	105%	12%

¹ Calculated against standard prepared in matrix. Matrix suppression was approximately 40%. Without Oasis HLB cleanup, matrix suppression was approximately 80%