

strata-X-CW

Typical extraction protocol

Condition - 1mL methanol

Additional conditioning steps
may be added to improve selectivity



Equilibrate - 1mL H₂O



Load sample – 1mL



Wash 1 - 1mL H₂O



“Wash 2*” - 1mL methanol

*Second wash optional

May collect neutrals
and acids in this fraction

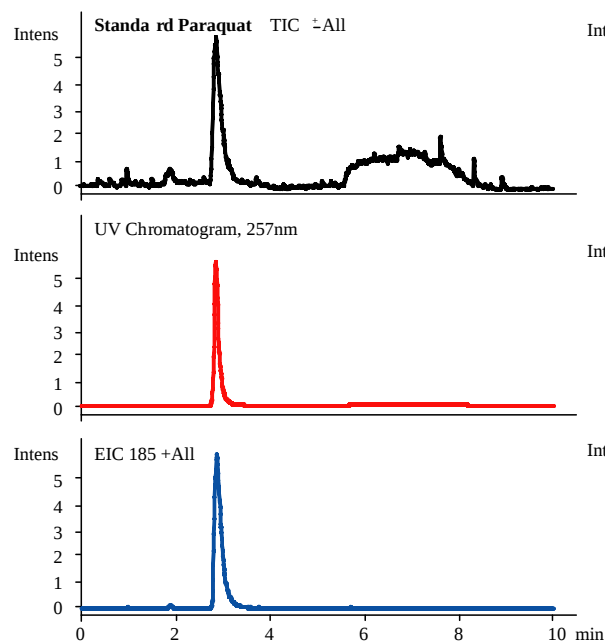


Elute – 1mL 2% formic acid in methanol

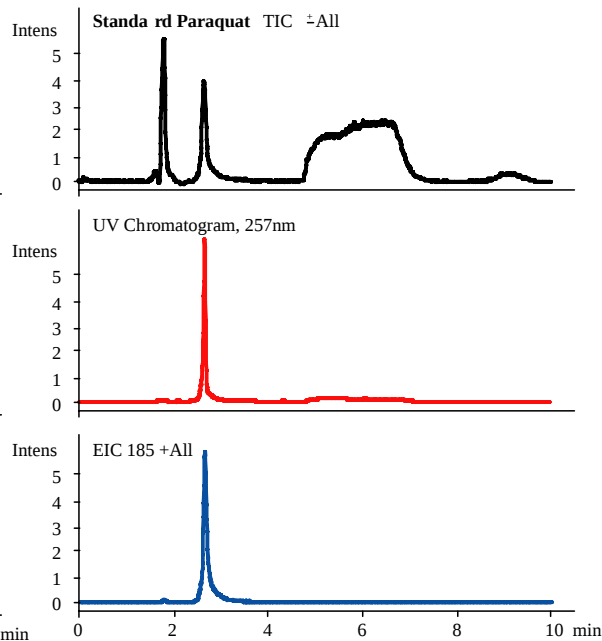
Wash 2 used – bases only in eluent fraction
Wash 1 only – neutrals, acids & bases in eluent fraction

Chromatographic Analysis of Paraquat from Tap Water (on strata™ - X-CW). Elution with 2% Formic acid in Methanol. 95% recovery.

Standard Solution



SPE Extract



LC-MS Analysis Conditions

Column: Curosil-PFP, 5 μ , 150x4.6

Mobile Phase:

A= 0.2% TFA/MeOH:water (5:95) hold for 3 mins, then gradient(A/B) to 80/20
(B = methanol) hold for 5 mins

Flow Rate: 0.8 mL/min

Scan Range: 50-400 amu; MS-ESI (PI)

MS Instrument: Bruker Esquire 2000 IT

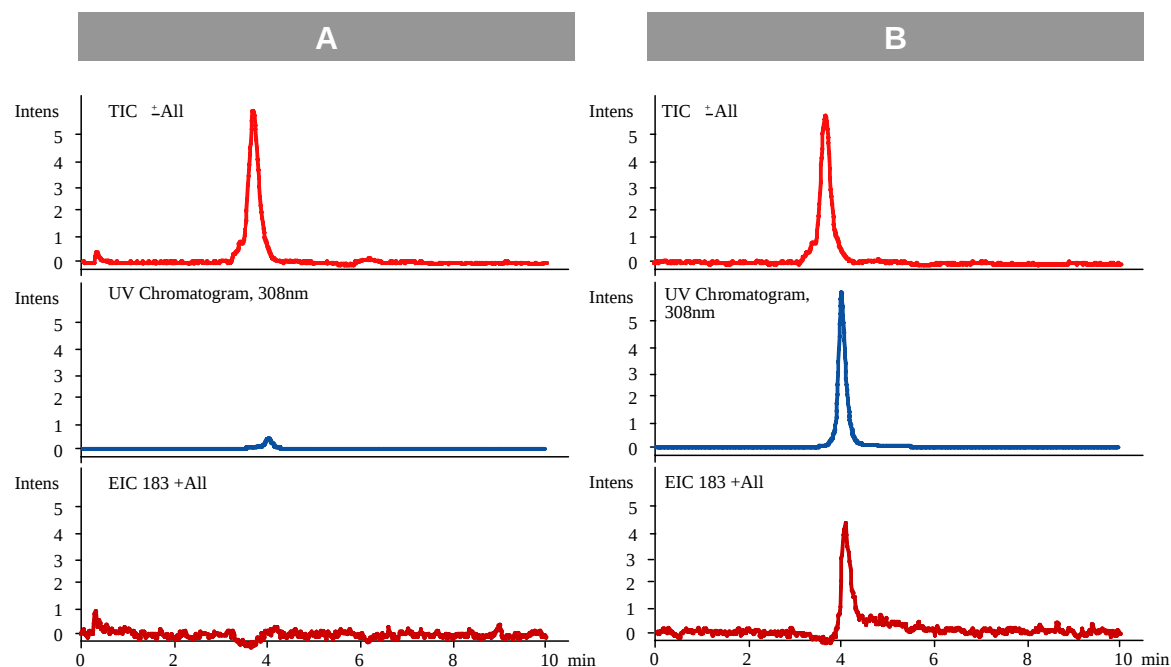
Injection Vol.: 25 μ L

* 10 mL of Tap water spiked with analyte, used for SPE sample.

Chromatographic Analysis of Diquat from Tap Water (on strata™ -X-CW). Elution with 2% Formic acid in Methanol. 91% recovery.

Chromatogram of:

A) Blank B) Spiked Extracts (UV @ 308 nm & LC/MS extracted Ion m/z; 183.) 91% recovery.



LC-UV and MS Analysis Conditions

Column: PolymerX, 5 μ ,
RP-1, 150X4.6

Mobile Phase: A= 0.2%
TFA/MeOH:water(5:95)

Flow Rate: 0.8 mL/min

Scan Range: 50-400 amu; MS-ESI (PI)

MS Instrument: Bruker Esquire 2000 IT

Injection Vol.: 20 μ L

* 10 mL of Tap water spiked with analyte,
used for SPE sample.