HPLC Application

ID No.: **24534**

Linearity curve of Lidocaine from O fluid on a Strata-X-C and Knx 2.6um, XB-C!8 50x4.6 column

Column: Kinetex® 2.6 µm XB-C18 100 Å, LC Column 50 x 4.6 mm, Ea
Dimensions: 50 x 4.6 mm ID
Order No: 00B-4496-E0
Elution Type: Gradient
Eluent A: 0.1% Formic Acid in DI H2O
Eluent B: 0.1% Formic Acid in ACN

Gradient Profile:

Step No.	Time (min)	Pct A	Pct B
1	0	90	10
2	3	60	40
3	3.5	60	40
4	3.51	90	10
5	6	90	10

Flow Rate: 1000 µL/min
Col. Temp.: ambient
Detection: Tandem Mass Spec (MS-MS) @ (ambient)

Products used in this application:

KINETEX®

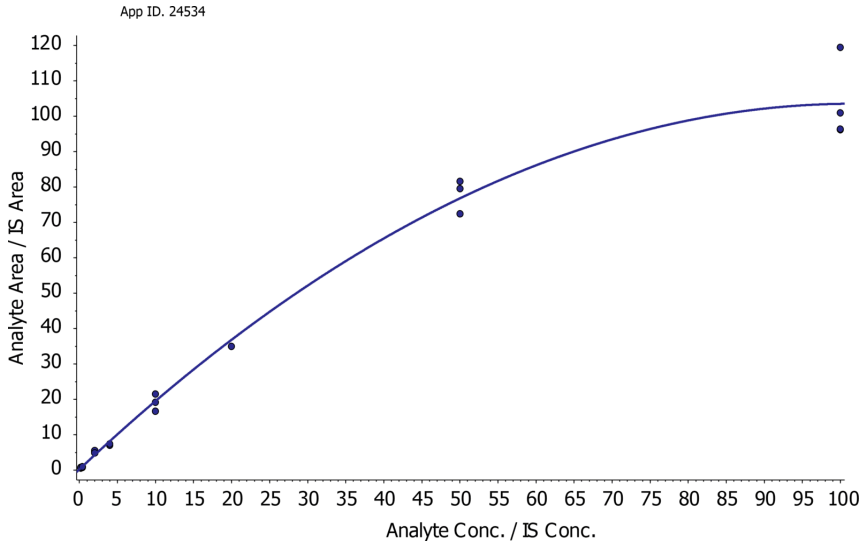
Detector Info:
Instrument: Agilent® 1260
MS/MS Instrument: <a target="_blank" href="https://sciex.com/products/mass-spectrometers?utm_campaign=2019%20application%20search&utm_source=phenomenex&utm_medium=referral">SCIEX<,

Analyst Note:
Sample pre-treatment
1ml human oral fluid was collected on cellulose pad of the applicator tip provided by the Intercept® i2 oral fluid device (OFC) . Saturated pad was placed into transport tube containing buffer solution and allowed to sit overnight. Centrifuge at 600g for 15mins to collect supernatant.

SPE cartridge: Strata-X-C, 30 mg 96-Well Plate
Part No. 8E-S029-TGB

Step	Procedure
Condition:	1 mL Methanol
Equilibrate:	1 mL DI Water
Load:	Combine 0.5mL of pretreated sample spiked with internal standards and 1 mL 1% formic acid, mix/vortex 10-15 secs and
Weak Wash:	1 mL DI Water
Strong Wash:	1 mL 50:50 Acetone/Water
Dry Down:	5 minutes at maximum vacuum (15" Hg or higher)
Elute:	2 x 500 µL Methanol/Acetonitrile/30% Ammonium Hydroxide (5:5:2)
Dry Down:	Evaporate to dryness under gentle nitrogen and 45-50°C.
Reconstitute:	200 µL initial mobile phase

Linearity curve of Lidocaine from O fluid on a Strata-X-C and Knx 2.6um, XB-C!8 50x4.6 column



ANALYTES:

1 Lidocaine

Retention Time: 1.62 min