

## Linearity curve of Lidocaine from O fluid on a Strata-X-C and Knx 2.6um, XB-C18 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 H<sub>2</sub>O

**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)

**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:

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  
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.

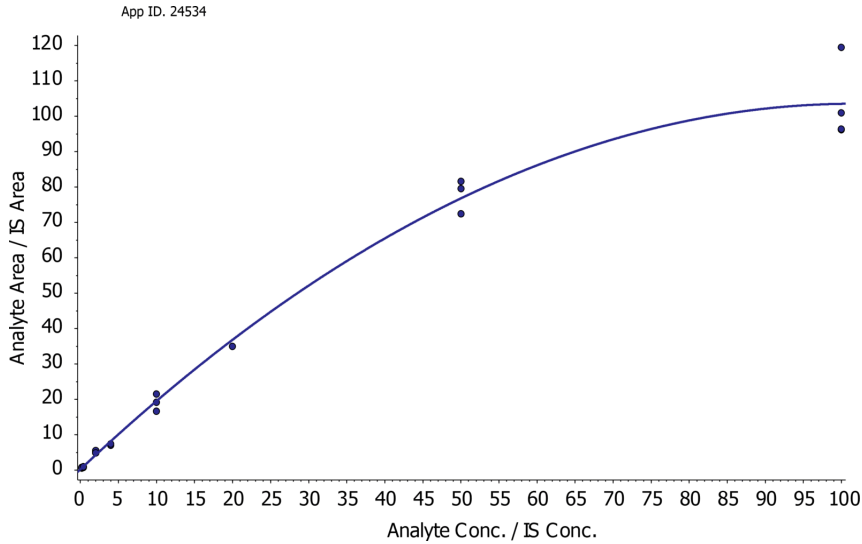
Reconstitute: 200 µL initial mobile phase



Products used in this application:



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### ANALYTES:

**1** Lidocaine

Retention Time: 1.62 min

