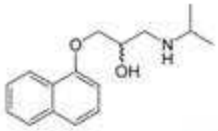
Drug of Abuse: Propranolol in Human Plasma | Application Note: SPAGC1001

AGILITY DVB SCX SPE CARTRIDGE

Compound: Propranolol



SPE EXTRACTION METHOD:

(Agility™ DVB SCX cartridge, 30 mg/ 1 cc)
(Catalog # OC21AG2030-96)

Condition:
1mL of methanol, followed by 1mL of 1% formic acid

⇩

Load:
100 µL of spiked human plasma (500 ng/mL propranolol) with 20 µL of H_3PO_4

⇩

Wash:
1 mL of 1% formic acid, followed by 1 mL of 1% formic acid in 50% methanol

⇩

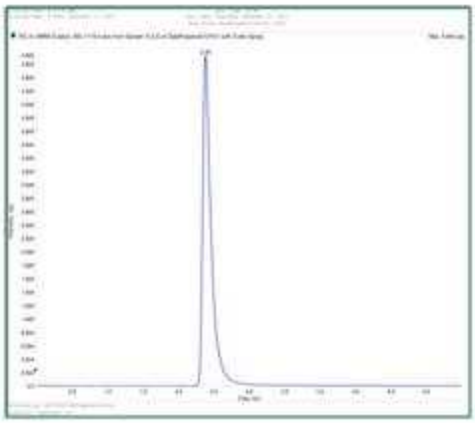
Elute:
1mL of 5% NH_4OH in methanol

⇩

Evaporate and Reconstitute:
200 µL of mobile phase

HPLC METHOD:

Column: Orochem Reliasil C18 HPLC column 4.6x50 mm, 3 µm.
Part number: R3BI-101
Mobile phase: 40 mM NH_4AC-acetonitrile-formic acid 55:45:0.1
Flow rate: 0.55 mL/min
Injection volume: 20 µL
Retention time: 2.38 min



MS/MS CONDITIONS:

Mass spectrometer: API3000
Ion source: Turbo Ionspary
Polarity: Positive
Scan mode: MRM: primary, Q1: 260.1, Q3: 116; secondary, Q1: 260.1, Q3: 183

IS:	4000
Temp.	550
DP:	30
CAD:	12
CE:	25
EP:	10
CXP:	10

RESULTS

Recovery (CV%): 88.2% (5.7%)