



LABORATORY REPORT

QC ACCOUNT (WARDE)
300 W. TEXTILE
ANN ARBOR MI 48108

EXAMPLE, REPORT
WX0000000237 F 12/05/1988 37 Y

Referral Testing

Collected: 03/18/2026 08:56 Received: 03/18/2026 08:56

Table with 6 columns: Test Name, Result, Flag, Ref-Ranges, Units, Site. Row 1: Fentanyl, 200, H, ng/mL, NMRL

Reporting Limit: 0.20 ng/mL
Synonym(s): Duragesic(R); Sublimaze(R)
Dose and route: peak concentration and time
25-100 mcg/hr transdermal patch: serum 0.3-3.8 ng/mL at 24 hr
400 mcg sublingual spray: plasma 0.8 ng/mL at 1.5 hr
Half-life: approximately 3-14 hr (IV), 13-22 hr (post-removal of a transdermal patch)
Analysis by High Performance Liquid Chromatography/Tandem Mass Spectrometry (LC-MS/MS)

Table with 6 columns: Test Name, Result, Flag, Ref-Ranges, Units, Site. Row 2: Norfentanyl, 400, ng/mL, NMRL

Reporting Limit: 0.40 ng/mL
Synonym(s): Fentanyl Metabolite
Norfentanyl averaged 6% of fentanyl concentration, ranging up to 17% in plasma 1-2 hr after 50-150 mg IV fentanyl
Analysis by High Performance Liquid Chromatography/Tandem Mass Spectrometry (LC-MS/MS)

Table with 6 columns: Test Name, Result, Flag, Ref-Ranges, Units, Site. Row 3: 4-ANPP, 600, ng/mL, NMRL

Reporting Limit: 1.0 ng/mL
Synonym(s): Despropionyl fentanyl
Precursor chemical and minor metabolite of fentanyl and other fentanyl analogs
Potentially indicative of illicit use if 4-ANPP concentration is greater than fentanyl concentration
Analysis by High Performance Liquid Chromatography/Tandem Mass Spectrometry (LC-MS/MS)
This test was developed and its performance characteristics determined by NMS Labs. It has not been cleared or approved by the US Food and Drug Administration.

Digital data review may have taken place remotely by qualified NMS staff utilizing a secure VPN connection for some or all of the reported results. This is in accordance with and follows CLIA regulations.
Testing performed at NMS Labs, Inc.
200 Welsh Road
Horsham, PA 19044-2208
Robert A. Middleberg, PhD, F-ABFT, DABCC-TC, Laboratory Director
CLIA 39D0197898

Reported Date: 03/18/2026 08:57 FENMS

LAB: L - LOW, H - HIGH, AB - ABNORMAL, C - CRITICAL, . - NOT TESTED



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Performing Site:
NMRL: NMS Labs 200 Welsh Road Horsham PA 19044

LAB: L - LOW, H - HIGH, AB - ABNORMAL, C - CRITICAL, . - NOT TESTED

E718000003
WX0000000237

Ordered By: CLIENT CLIENT
WX00000000000511

Printed D&T: 03/18/26 08:57

Kajal V. Sitwala, MD, PhD - Medical Director

Form: MM RL1
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