



NMS Labs

CONFIDENTIAL

200 Welsh Road, Horsham, PA 19044-2208
Phone: (215) 657-4900 Fax: (215) 657-2972
e-mail: nms@nmslabs.com

Robert A. Middleberg, PhD, F-ABFT, DABCC-TC, Laboratory Director

Demo Report

Report Issued 03/30/2020 11:46
Last Report Issued 06/23/2017 13:05

88888
Clinical Example Report
Attn: Example Reports
200 Welsh Road
Horsham, PA 19044

Patient Name 1021B-POS
Patient ID 1021B-POS
Chain 17001209
Age Not Given DOB Not Given
Gender Not Given
Workorder 17001209
Received 06/23/2017 12:58

Sample ID 17001209-001
Matrix Blood
Patient Name 1021B-POS
Patient ID 1021B-POS
Container Type Clear vial

Collect Dt/Tm Not Given
Source Not Given

Approx Vol/Weight Not Given

Receipt Notes None Entered

Table with 5 columns: Analysis and Comments, Result, Units, Reporting Limit, Notes

1021B Substituted Cathinone Panel, Blood

Analysis by High Performance Liquid Chromatography/
Tandem Mass Spectrometry (LC-MS/MS)

Pentylone 50 ng/mL 10

Pentylone is a substituted cathinone that is sold
recreationally as a novel psychoactive substance.
Pentylone is a stimulant type drug, with effects
similar to that of cocaine, with some additional
activity at serotonin receptors. Synthetic cathinone
users report psychological, cardiovascular, and
neurological sympathomimetic symptoms, with effects
ranging from tachycardia, vasoconstriction, seizures,
agitation, aggression, and psychosis.
Synthetic cathinones, including pentylone, are
increasingly being detected in a range of forensic
toxicology cases, including both human performance
and postmortem cases.
Pentylone has been qualitatively identified in a couple
of postmortem cases; other drugs were identified
as well.

Ethylone 50 ng/mL 10

Results for sample 17001209-001 are continued on next page



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Sample ID 17001209-001
Matrix Blood
Patient Name 1021B-POS
Patient ID 1021B-POS

Collect Dt/Tm Not Given
Source Not Given

Table with 5 columns: Analysis and Comments, Result, Units, Reporting Limit, Notes. Contains entries for Ethylone, Butylone, and Dibutylone with their respective concentrations and reporting limits.

Results for sample 17001209-001 are continued on next page



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Sample ID 17001209-001
Matrix Blood
Patient Name 1021B-POS
Patient ID 1021B-POS

Collect Dt/Tm Not Given
Source Not Given

Analysis and Comments	Result	Units	Reporting Limit	Notes
<p>Dibutylone is a substituted cathinone that is sold recreationally as a novel psychoactive substance. Butylone may be present due to being a potential metabolite of dibutylone; butylone itself is also considered a novel psychoactive substance. It has been identified in some 'bath salt' or 'research chemical' type products for euphoric and empathogenic effects. The drug is usually taken orally, but can also be insufflated or vaporized.</p>	50	ng/mL	10	
<p>N-Ethyl Pentylone is a substituted cathinone structurally similar to pentylone. It is sold as a novel psychoactive substance. Due to its structural similarities to pentylone, N-Ethyl Pentylone is expected to have stimulant type effects. N-Ethyl Pentylone was reported as the sole intoxicant in a fatality where an individual was agitated and displayed erratic behavior followed by cardiac arrest; other symptoms included rhabdomyolysis, hypoglycemia, hepatic and renal injury, respiratory failure, and disseminated intravascular coagulation.</p>				

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.