



NMS Labs

CONFIDENTIAL

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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 1021SP
Patient ID 1021SP
Chain 17001210
Age Not Given DOB Not Given
Gender Not Given
Workorder 17001210
Received 06/23/2017 12:58

Sample ID 17001210-001
Matrix Serum or Plasma
Patient Name 1021SP
Patient ID 1021SP
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

1021SP Substituted Cathinone Panel, Serum/Plasma

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

Pentylone None Detected 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 None Detected ng/mL 10

Results for sample 17001210-001 are continued on next page



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Sample ID 17001210-001
Matrix Serum or Plasma
Patient Name 1021SP
Patient ID 1021SP

Collect Dt/Tm Not Given
Source Not Given

Table with 5 columns: Analysis and Comments, Result, Units, Reporting Limit, Notes. Rows include Ethylone, Butylone, and Dibutylone with detailed descriptions and detection results.

Results for sample 17001210-001 are continued on next page



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**Sample ID** 17001210-001  
**Matrix** Serum or Plasma  
**Patient Name** 1021SP  
**Patient ID** 1021SP

**Collect Dt/Tm** Not Given  
**Source** Not Given

Analysis and Comments	Result	Units	Reporting Limit	Notes
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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.

N-Ethyl Pentylone	None Detected	ng/mL	10	
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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.

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.