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

CONFIDENTIAL

Demo Report

Report Issued 04/21/2022 18:38
Last Report Issued 06/25/2014 12:51

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

Patient Name 4047SP
Patient ID 4047SP
Chain 14001797
DOB Not Given
Sex Not Given
Workorder 14001797

Received 06/25/2014

Lab ID 14001797-001
Matrix Serum or Plasma
Patient Name 4047SP
Patient ID 4047SP
Container Type Clear vial

Collect Dt/Tm Not Given
Source Not Given

Approx Vol/Weight Not Given

Receipt Notes None Entered

Analysis and Comments	Result	Units	Reporting Limit	Notes
4047SP Pyrrolidinophenone Panel, Serum/Plasma				
Analysis by High Performance Liquid Chromatography/ Tandem Mass Spectrometry (LC-MS/MS)				
MDPPP	None Detected	ng/mL	5.0	

Synonym(s): 3',4'-Methylenedioxy-alpha-pyrrolidinopropiophenone

MDPPP is a psychoactive stimulant of the pyrrolidinophenone series that is structurally related to pyrovalerone and alpha PVP. In general, psychoactive stimulants have temporary effects on the psychoneurotic system. In addition, they seem to have a much higher tendency to cause side effects such as paranoia, hallucinations, and schizophrenic or psychosis like symptoms.
Toxicology results from an 18 year old man who presented to the ER after smoking 'Spice' with severe agitation, hallucinations, and prolonged psychosis showed cannabicyclohexanol in serum and MDPPP, JWH-072, and MDA in blood, urine, and cerebrospinal fluid. No serum concentration data was reported.
Some pyrrolidinophenones are known to have limited stability in biological specimens related to pH, collection tube, and storage temperature. Results are those obtained at the time of analysis. Negative results should be interpreted with caution.

Results for sample 14001797-001 are continued on next page

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Lab ID 14001797-001
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Collect Dt/Tm Not Given
Source Not Given

Analysis and Comments	Result	Units	Reporting Limit	Notes
MeOPPP	None Detected	ng/mL	5.0	

Synonym(s): 4'-methoxy- alpha-Pyrrolidinopropiophenone

MeOPPP is a psychoactive stimulant of the pyrrolidinophenone series that is structurally related to pyrovalerone and alpha PVP. In general, psychoactive stimulants have temporary effects on the psychoneurotic system. In addition, they seem to have a much higher tendency to cause side effects such as paranoia, hallucinations, and schizophrenic or psychosis like symptoms.
No reference serum concentration data for this compound have been reported.
Some pyrrolidinophenones are known to have limited stability in biological specimens related to pH, collection tube, and storage temperature. Results are those obtained at the time of analysis. Negative results should be interpreted with caution.

MPBP	None Detected	ng/mL	5.0	

Synonym(s): 4'-methyl- alpha-Pyrrolidinobutiophenone

MPBP is a psychoactive stimulant of the pyrrolidinophenone series that is structurally related to pyrovalerone and alpha PVP. In general, psychoactive stimulants have temporary effects on the psychoneurotic system. In addition, they seem to have a much higher tendency to cause side effects such as paranoia, hallucinations, and schizophrenic or psychosis like symptoms.
No reference serum concentration data for this compound have been reported.
Some pyrrolidinophenones are known to have limited stability in biological specimens related to pH, collection tube, and storage temperature. Results are those obtained at the time of analysis. Negative results should be interpreted with caution.

Pyrovalerone	None Detected	ng/mL	5.0	

Synonym(s): (4-methylphenyl)-2-(1-pyrrolidinyl)pentan-1-one

Pyrovalerone acts as a stimulant as a NDRI (norepinephrine-dopamine reputake inhibitor) and is used by some countries for the clinical treatment of chronic fatigue and lethargy. More commonly, pyrovalerone is encountered as a component in 'bath salts' products for recreational drug abuse.
Side effects of pyrovalerone include loss of appetite, anxiety, muscle tremors, tachycardia, and hypertension.

Results for sample 14001797-001 are continued on next page

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In one reported case of 'bath salt' use, a 33 year old man who died from autoerotic asphyxiation had a pyrovalerone level of 42 ng/mL in his blood; pentylone was also identified in the blood. A blood / plasma ratio has not been established. Some pyrrolidinophenones are known to have limited stability in biological specimens related to pH, collection tube, and storage temperature. Results are those obtained at the time of analysis. Negative results should be interpreted with caution.				
Naphyrone	None Detected	ng/mL	5.0	
Synonym(s): 1-naphthalen-2-yl-2-pyrrolidin-1-ylpentan-1-one				
Naphyrone is a stimulant characterized as a novel pyschoactive substance; it has been found as a component of 'bath salt' products for recreational drug abuse. In general, psychoactive stimulants have temporary effects on the psychoneurotic system. In addition, they seem to have a much higher tendency to cause side effects such as paranoia, hallucinations, and schizophrenic or psychosis like symptoms. A 31 year old man ingested a dose of naphyrone, which produced sympathomimetic toxicity with restlessness, insomnia, anxiety and hallucinations that lasted for 2 days; naphyrone was detected in the individual's plasma at levels of 30 and 20 ng/mL, 40 and 60 hours post dose. Some pyrrolidinophenones are known to have limited stability in biological specimens related to pH, collection tube, and storage temperature. Results are those obtained at the time of analysis. Negative results should be interpreted with caution.				
MPHP	None Detected	ng/mL	5.0	
Synonym(s): 4'-methyl-alpha-Pyrrolidinohexiophenone				
MPHP is a psychoactive stimulant of the pyrrolidinophenone series that is structurally related to pyrovalerone and alpha PVP. In general, psychoactive stimulants have temporary effects on the psychoneurotic system. In addition, they seem to have a much higher tendency to cause side effects such as paranoia, hallucinations, and schizophrenic or psychosis like symptoms. A 27 year old man who was admitted to the hospital with agitation and concomitant foot fractures from jumping out a window had reportedly snorted a powder				

Results for sample 14001797-001 are continued on next page

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Analysis and Comments	Result	Units	Reporting Limit	Notes
believed to be cocaine; MPHP was found to be present in the serum at approximately 100 ng/mL. Some pyrrolidinophenones are known to have limited stability in biological specimens related to pH, collection tube, and storage temperature. Results are those obtained at the time of analysis. Negative results should be interpreted with caution.				

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.