

IDENTIFICATION OF ILLICIT SUBSTANCES ON UNKNOWN CONFISCATED SAMPLES IN LC/MS

Code LC20000





This product fulfills all the requirements of Directive 98/79/EC on in vitro diagnostic medical devices (IVD).

The declaration of conformity (CE) is available upon request.



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INTRODUCTION

Narcotic drugs and psychotropic substances are chemical compounds of natural, synthetic or semi-synthetic origin. They are pharmacologically active, capable of altering the psychic and behavioural sphere to varying degrees, with psycholeptic, psychoanalytic and psychodisleptic effects on the central nervous system, and capable of generating phenomena of tolerance, addiction and dependence. These are substances whose number is extremely large, characterized by very varied chemical structures. They are included in national and international regulations and grouped in tables subject to continuous updating.

The analytical assessments for the determination of SSPs in non-biological specimens, assuming the character of judicial evidence, must meet the requirements of high reliability (demonstrated through documentation and traceability of each stage of analysis) as well as transparency and possibly national uniformity. The high level of these analytical assessments must be ensured not only by the use of appropriate analytical techniques and procedures and analytical methods consolidated and shared by the national and international scientific community in the field of toxicology and forensics, but also by ensuring that the same results come from culturally prepared structures, with efficient organization, characterized by high reliability over time, and constantly updated.

The purpose of this method is to provide laboratories with a kit dedicated to carrying out these analyses from confiscated illicit material.

The kit allows the user to identify the most common drugs (cocaine, buprenorphine, amphetamine, methamphetamine, MDMA, MDA, MDE, MBDB, ketamine, diacetylmorphine, ephedrine, pseudoephedrine, methadone, methorphan, monoacetylmorphine, THC, morphine) and the most commonly used excipients (acetylsalicylic acid, aminophenazone, benzocaine, caffeine, diltiazem, phenacetin, ibuprofen, hydroxyzine, levamisole, lidocaine, naloxone, nicotine, noscapine, paracetamol, paroxetine, procaine, procainamide, sulphamethoxazole, trimethoprim, tropacocaine)

*REFERENCE

SCIENTIFIC ASSOCIATION Gruppo Tossicologi Forensi Italiani (GTFI) LINEE GUIDA PER LA DETERMINAZIONE DI SOSTANZE STUPEFACENTI E PSICOTROPE SU MATERIAL NON BIOLOGICO CON FINALITÀ TOSSICOLOGICO-FORENSI
Revision n. 01 of 29 May 2017

N° 006	11/ 2024
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TECHNICAL FEATURES

SENSITIVITY (LLOD):	1,67 ng/mL									
MINIMUM CONCENTRATION ANALYZABLE (LLOQ):	5 ng/mL									
LINEARITY:	5 - 100 ng/mL									
<u>Accuracy intra serie (relative error %)</u> <u>Cocaine:</u>	<table><tr><td>Ci</td><td>Cs</td></tr><tr><td>25 ng/ml</td><td>75 ng/ml</td></tr><tr><td>6,47%</td><td>3,11%</td></tr></table>	Ci	Cs	25 ng/ml	75 ng/ml	6,47%	3,11%			
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<u>Coefficient of Correlation R2 + Dev Std:</u>	0,9945 ± 0,0014 Cocaine									
<u>Accuracy intra serie (relative error %)</u> <u>6-Mam:</u>	<table><tr><td>Ci</td><td>Cs</td></tr><tr><td>25 ng/ml</td><td>75 ng/ml</td></tr><tr><td>5,50%</td><td>1,32%</td></tr></table>	Ci	Cs	25 ng/ml	75 ng/ml	5,50%	1,32%			
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<u>Coefficient of Correlation R2 + Dev Std:</u>	0,9942 ± 0,0027 6-Mam									

<u>Accuracy intra serie (relative error %)</u> <u>Amphetamine:</u>	Ci 25 ng/ml 7,46%	Cs 75 ng/ml 5,16%	
<u>Accuracy inter serie (relative error %)</u> <u>Amphetamine:</u>	Ci 25 ng/ml 8,88%	Cs 75 ng/ml 6,01%	
<u>Reproducibility intra serie (coefficient of variation %)</u> <u>Amphetamine:</u>	C LLOQ 5 ng/ml 3,55%	Cm 50 ng/ml 4,87%	CUP 100 ng/ml 2,08%
<u>Reproducibility inter serie (coefficient of variation %)</u> <u>Amphetamine:</u>	C LLOQ 5 ng/ml 9,91%	Cm 50 ng/ml 9,88%	CUP 100 ng/ml 8,60%
<u>Coefficient of Correlation R2 + Dev Std:</u>	0,9923 ± 0,0012 Amphetamine		
<u>Accuracy intra serie (relative error %)</u> <u>Methamphetamine:</u>	Ci 25 ng/ml 10,75%	Cs 75 ng/ml 1,77%	
<u>Accuracy inter serie (relative error %)</u> <u>Methamphetamine:</u>	Ci 25 ng/ml 10,99%	Cs 75 ng/ml 1,90%	
<u>Reproducibility intra serie (coefficient of variation %)</u> <u>Methamphetamine:</u>	C LLOQ 5 ng/ml 6,57%	Cm 50 ng/ml 7,84%	CUP 100 ng/ml 3,66%
<u>Reproducibility inter serie (coefficient of variation %)</u> <u>Methamphetamine:</u>	C LLOQ 5 ng/ml 8,67%	Cm 50 ng/ml 9,12%	CUP 100 ng/ml 7,57%
<u>Coefficient of Correlation R2 + Dev Std:</u>	0,9921 ± 0,0021 Methamphetamine		
<u>Accuracy intra serie (relative error %)</u> <u>MDA:</u>	Ci 25 ng/ml 6,58%	Cs 75 ng/ml 2,71%	
<u>Accuracy inter serie (relative error %)</u> <u>MDA:</u>	Ci 25 ng/ml 7,59%	Cs 75 ng/ml 3,58%	
<u>Reproducibility intra serie (coefficient of variation %)</u> <u>MDA:</u>	C LLOQ 5 ng/ml 1,31%	Cm 50 ng/ml 2,88%	CUP 100 ng/ml 5,36%
<u>Reproducibility inter serie (coefficient of variation %)</u> <u>MDA:</u>	C LLOQ 5 ng/ml 7,75%	Cm 50 ng/ml 6,30%	CUP 100 ng/ml 8,95%
<u>Coefficient of Correlation R2 + Dev Std:</u>	0,9914 ± 0,0017 MDA		
<u>Accuracy intra serie (relative error %)</u> <u>MDE:</u>	Ci 25 ng/ml 6,76%	Cs 75 ng/ml 2,70%	

Accuracy inter serie (relative error %) <u>MDE:</u>	<table><tr><td>Ci</td><td>Cs</td></tr><tr><td>25 ng/ml</td><td>75 ng/ml</td></tr><tr><td>10,90%</td><td>3,36%</td></tr></table>	Ci	Cs	25 ng/ml	75 ng/ml	10,90%	3,36%			
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<u>Coefficient of Correlation R2 + Dev Std:</u>	0,9939 ± 0,0014 MDE									
Accuracy intra serie (relative error %) <u>MDMA:</u>	<table><tr><td>Ci</td><td>Cs</td></tr><tr><td>25 ng/ml</td><td>75 ng/ml</td></tr><tr><td>4,97%</td><td>3,10%</td></tr></table>	Ci	Cs	25 ng/ml	75 ng/ml	4,97%	3,10%			
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<u>Coefficient of Correlation R2 + Dev Std:</u>	0,9945 ± 0,0023 MDMA									
Accuracy intra serie (relative error %) <u>MBDB:</u>	<table><tr><td>Ci</td><td>Cs</td></tr><tr><td>25 ng/ml</td><td>75 ng/ml</td></tr><tr><td>6,94%</td><td>2,82%</td></tr></table>	Ci	Cs	25 ng/ml	75 ng/ml	6,94%	2,82%			
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9,15%	8,08%	6,70%								
<u>Coefficient of Correlation R2 + Dev Std:</u>	0,9935 ± 0,0019 MBDB									
Accuracy intra serie (relative error %) <u>Ketamine:</u>	<table><tr><td>Ci</td><td>Cs</td></tr><tr><td>25 ng/ml</td><td>75 ng/ml</td></tr><tr><td>6,69%</td><td>2,56%</td></tr></table>	Ci	Cs	25 ng/ml	75 ng/ml	6,69%	2,56%			
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<u>Coefficient of Correlation R2 + Dev Std:</u>	0,9928 ± 0,0018 Ketamine									
<u>Accuracy intra serie (relative error %) Methorphan:</u>	<table><tr><td>Ci</td><td>Cs</td></tr><tr><td>25 ng/ml</td><td>75 ng/ml</td></tr><tr><td>6,91%</td><td>1,90%</td></tr></table>	Ci	Cs	25 ng/ml	75 ng/ml	6,91%	1,90%			
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<u>Coefficient of Correlation R2 + Dev Std:</u>	0,9946 ± 0,0030 Methorphan									
<u>Accuracy intra serie (relative error %) Buprenorphine:</u>	<table><tr><td>Ci</td><td>Cs</td></tr><tr><td>25 ng/ml</td><td>75 ng/ml</td></tr><tr><td>5,91%</td><td>0,35%</td></tr></table>	Ci	Cs	25 ng/ml	75 ng/ml	5,91%	0,35%			
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<u>Coefficient of Correlation R2 + Dev Std:</u>	0,9929 ± 0,0011 Buprenorphine									
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<u>Accuracy intra serie (relative error %) Morphine:</u>	<table><tr><td>Ci</td><td>Cs</td></tr><tr><td>25 ng/ml</td><td>75 ng/ml</td></tr><tr><td>4,88%</td><td>2,16%</td></tr></table>	Ci	Cs	25 ng/ml	75 ng/ml	4,88%	2,16%			
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<u>Accuracy inter serie (relative error %) Morphine:</u>	<table><tr><td>Ci</td><td>Cs</td></tr><tr><td>25 ng/ml</td><td>75 ng/ml</td></tr><tr><td>8,26%</td><td>2,79%</td></tr></table>	Ci	Cs	25 ng/ml	75 ng/ml	8,26%	2,79%			
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<u>Reproducibility intra serie (coefficient of variation %) Morphine:</u>	<table><tr><td>C LLOQ</td><td>Cm</td><td>CUP</td></tr><tr><td>5 ng/ml</td><td>50 ng/ml</td><td>100 ng/ml</td></tr><tr><td>3,91%</td><td>4,94%</td><td>0,85%</td></tr></table>	C LLOQ	Cm	CUP	5 ng/ml	50 ng/ml	100 ng/ml	3,91%	4,94%	0,85%
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<u>Coefficient of Correlation R2 + Dev Std:</u>	0,9950 ± 0,0019 Morphine									
<u>Accuracy intra serie (relative error %) Delta-9-THC:</u>	<table><tr><td>Ci</td><td>Cs</td></tr><tr><td>25 ng/ml</td><td>75 ng/ml</td></tr><tr><td>6,89%</td><td>6,03%</td></tr></table>	Ci	Cs	25 ng/ml	75 ng/ml	6,89%	6,03%			
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<u>Coefficient of Correlation R2 + Dev Std:</u>	0,9952 ± 0,0024 Delta-9-THC									
<u>Accuracy intra serie (relative error %) Aminophenazone:</u>	<table><tr><td>Ci</td><td>Cs</td></tr><tr><td>25 ng/ml</td><td>75 ng/ml</td></tr><tr><td>2,27%</td><td>1,65%</td></tr></table>	Ci	Cs	25 ng/ml	75 ng/ml	2,27%	1,65%			
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<u>Coefficient of Correlation R2 + Dev Std:</u>	0,9929 ± 0,0029 Aminophenazone									
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<u>Coefficient of Correlation R2 + Dev Std:</u>	0,9919 ± 0,0029 Caffeine									
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<u>Coefficient of Correlation R2 + Dev Std:</u>	0,9936 ± 0,0021 Diltiazem									
<u>Accuracy intra serie (relative error %) Phenacetin:</u>	<table><tr><th>Ci</th><th>Cs</th></tr><tr><td>25 ng/ml</td><td>75 ng/ml</td></tr><tr><td>4,48%</td><td>3,27%</td></tr></table>	Ci	Cs	25 ng/ml	75 ng/ml	4,48%	3,27%			
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C LLOQ	Cm	CUP								
5 ng/ml	50 ng/ml	100 ng/ml								
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<u>Coefficient of Correlation R2 + Dev Std:</u>	0,9943 ± 0,0017 Phenacetin		
<u>Accuracy intra serie (relative error %)</u> <u>Hydroxyzine:</u>	Ci	Cs	
	25 ng/ml	75 ng/ml	
	13,41%	7,10%	
<u>Accuracy inter serie (relative error %)</u> <u>Hydroxyzine:</u>	Ci	Cs	
	25 ng/ml	75 ng/ml	
	11,22%	9,88%	
<u>Reproducibility intra serie (coefficient of variation %) Hydroxyzine:</u>	C LLOQ	Cm	CUP
	5 ng/ml	50 ng/ml	100 ng/ml
	2,08%	1,59%	1,53%
<u>Reproducibility inter serie (coefficient of variation %) Hydroxyzine:</u>	C LLOQ	Cm	CUP
	5 ng/ml	50 ng/ml	100 ng/ml
	6,57%	5,98%	3,69%
<u>Coefficient of Correlation R2 + Dev Std:</u>	0,9959 ± 0,0028 Hydroxyzine		
<u>Accuracy intra serie (relative error %)</u> <u>Lidocaine:</u>	Ci	Cs	
	25 ng/ml	75 ng/ml	
	5,80%	7,91%	
<u>Accuracy inter serie (relative error %)</u> <u>Lidocaine:</u>	Ci	Cs	
	25 ng/ml	75 ng/ml	
	9,68%	8,00%	
<u>Reproducibility intra serie (coefficient of variation %) Lidocaine:</u>	C LLOQ	Cm	CUP
	5 ng/ml	50 ng/ml	100 ng/ml
	5,95%	7,68%	3,51%
<u>Reproducibility inter serie (coefficient of variation %) Lidocaine:</u>	C LLOQ	Cm	CUP
	5 ng/ml	50 ng/ml	100 ng/ml
	8,66%	9,91%	7,69%
<u>Coefficient of Correlation R2 + Dev Std:</u>	0,9920 ± 0,0031 Lidocaine		
<u>Accuracy intra serie (relative error %)</u> <u>Naloxone:</u>	Ci	Cs	
	25 ng/ml	75 ng/ml	
	2,83%	3,50%	
<u>Accuracy inter serie (relative error %)</u> <u>Naloxone:</u>	Ci	Cs	
	25 ng/ml	75 ng/ml	
	6,83%	4,41%	
<u>Reproducibility intra serie (coefficient of variation %) Naloxone:</u>	C LLOQ	Cm	CUP
	5 ng/ml	50 ng/ml	100 ng/ml
	4,69%	5,23%	6,08%
<u>Reproducibility inter serie (coefficient of variation %) Naloxone:</u>	C LLOQ	Cm	CUP
	5 ng/ml	50 ng/ml	100 ng/ml
	12,83%	9,89%	11,44%
<u>Coefficient of Correlation R2 + Dev Std:</u>	0,9923 ± 0,0023 Naloxone		

<u>Accuracy intra serie (relative error %)</u> <u>Noscapine:</u>	Ci 25 ng/ml 1,31%	Cs 75 ng/ml 1,75%	
<u>Accuracy inter serie (relative error %)</u> <u>Noscapine:</u>	Ci 25 ng/ml 4,51%	Cs 75 ng/ml 2,70%	
<u>Reproducibility intra serie (coefficient of variation %)</u> <u>Noscapine:</u>	C LLOQ 5 ng/ml 4,01%	Cm 50 ng/ml 7,14%	CUP 100 ng/ml 5,27%
<u>Reproducibility inter serie (coefficient of variation %)</u> <u>Noscapine:</u>	C LLOQ 5 ng/ml 5,46%	Cm 50 ng/ml 8,60%	CUP 100 ng/ml 9,73%
<u>Coefficient of Correlation R2 + Dev Std:</u>	0,9953 ± 0,0033 Noscapine		
<u>Accuracy intra serie (relative error %)</u> <u>Paracetamol:</u>	Ci 25 ng/ml 7,59%	Cs 75 ng/ml 2,15%	
<u>Accuracy inter serie (relative error %)</u> <u>Paracetamol:</u>	Ci 25 ng/ml 9,09%	Cs 75 ng/ml 3,87%	
<u>Reproducibility intra serie (coefficient of variation %)</u> <u>Paracetamol:</u>	C LLOQ 5 ng/ml 2,24%	Cm 50 ng/ml 6,12%	CUP 100 ng/ml 2,46%
<u>Reproducibility inter serie (coefficient of variation %)</u> <u>Paracetamol:</u>	C LLOQ 5 ng/ml 8,74%	Cm 50 ng/ml 8,80%	CUP 100 ng/ml 7,97%
<u>Coefficient of Correlation R2 + Dev Std:</u>	0,9909 ± 0,0031 Paracetamol		
<u>Accuracy intra serie (relative error %)</u> <u>Ibuprofen:</u>	Ci 25 ng/ml 6,31%	Cs 75 ng/ml 4,12%	
<u>Accuracy inter serie (relative error %)</u> <u>Ibuprofen:</u>	Ci 25 ng/ml 8,31%	Cs 75 ng/ml 4,90%	
<u>Reproducibility intra serie (coefficient of variation %)</u> <u>Ibuprofen:</u>	C LLOQ 5 ng/ml 1,80%	Cm 50 ng/ml 2,56%	CUP 100 ng/ml 5,01%
<u>Reproducibility inter serie (coefficient of variation %)</u> <u>Ibuprofen:</u>	C LLOQ 5 ng/ml 9,53%	Cm 50 ng/ml 9,83%	CUP 100 ng/ml 8,65%
<u>Coefficient of Correlation R2 + Dev Std:</u>	0,9924 ± 0,0031 Ibuprofen		
<u>Accuracy intra serie (relative error %)</u> <u>Acetylsalicylic Acid:</u>	Ci 25 ng/ml 3,60%	Cs 75 ng/ml 5,00%	

<u>Accuracy inter serie (relative error %)</u> <u>Acetylsalicylic Acid:</u>	<table><tr><td>Ci</td><td>Cs</td></tr><tr><td>25 ng/ml</td><td>75 ng/ml</td></tr><tr><td>8,20%</td><td>7,20%</td></tr></table>	Ci	Cs	25 ng/ml	75 ng/ml	8,20%	7,20%			
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<u>Coefficient of Correlation R2 + Dev Std:</u>	0,9978 ± 0,0009 Acetylsalicylic Acid									
<u>Accuracy intra serie (relative error %)</u> <u>Paroxetine:</u>	<table><tr><td>Ci</td><td>Cs</td></tr><tr><td>25 ng/ml</td><td>75 ng/ml</td></tr><tr><td>7,08%</td><td>3,19%</td></tr></table>	Ci	Cs	25 ng/ml	75 ng/ml	7,08%	3,19%			
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5,71%	7,39%	7,55%								
<u>Coefficient of Correlation R2 + Dev Std:</u>	0,9917 ± 0,0068 Paroxetine									
<u>Accuracy intra serie (relative error %)</u> <u>Procaine:</u>	<table><tr><td>Ci</td><td>Cs</td></tr><tr><td>25 ng/ml</td><td>75 ng/ml</td></tr><tr><td>6,21%</td><td>6,77%</td></tr></table>	Ci	Cs	25 ng/ml	75 ng/ml	6,21%	6,77%			
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6,19%	8,87%	8,91%								
<u>Coefficient of Correlation R2 + Dev Std:</u>	0,9922 ± 0,0008 Procaine									
<u>Accuracy intra serie (relative error %)</u> <u>Procainamide:</u>	<table><tr><td>Ci</td><td>Cs</td></tr><tr><td>25 ng/ml</td><td>75 ng/ml</td></tr><tr><td>9,23%</td><td>6,55%</td></tr></table>	Ci	Cs	25 ng/ml	75 ng/ml	9,23%	6,55%			
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<u>Reproducibility intra serie (coefficient of variation %) Procainamide:</u>	<table><tr><td>C LLOQ</td><td>Cm</td><td>CUP</td></tr><tr><td>5 ng/ml</td><td>50 ng/ml</td><td>100 ng/ml</td></tr><tr><td>2,27%</td><td>4,75%</td><td>3,39%</td></tr></table>	C LLOQ	Cm	CUP	5 ng/ml	50 ng/ml	100 ng/ml	2,27%	4,75%	3,39%
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9,80%	8,72%	9,81%								
<u>Coefficient of Correlation R2 + Dev Std:</u>	0,9929 ± 0,0015 Procainamide									
<u>Accuracy intra serie (relative error %) Sulphamethoxazole:</u>	<table><tr><td>Ci</td><td>Cs</td></tr><tr><td>25 ng/ml</td><td>75 ng/ml</td></tr><tr><td>4,38%</td><td>5,00%</td></tr></table>	Ci	Cs	25 ng/ml	75 ng/ml	4,38%	5,00%			
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<u>Coefficient of Correlation R2 + Dev Std:</u>	0,9939 ± 0,0020 Sulphamethoxazole									
<u>Accuracy intra serie (relative error %) Trimethoprim:</u>	<table><tr><td>Ci</td><td>Cs</td></tr><tr><td>25 ng/ml</td><td>75 ng/ml</td></tr><tr><td>7,27%</td><td>8,85%</td></tr></table>	Ci	Cs	25 ng/ml	75 ng/ml	7,27%	8,85%			
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<u>Coefficient of Correlation R2 + Dev Std:</u>	0,9904 ± 0,0016 Trimethoprim									
<u>Accuracy intra serie (relative error %) Diacetylmorphine:</u>	<table><tr><td>Ci</td><td>Cs</td></tr><tr><td>25 ng/ml</td><td>75 ng/ml</td></tr><tr><td>6,84%</td><td>1,87%</td></tr></table>	Ci	Cs	25 ng/ml	75 ng/ml	6,84%	1,87%			
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<u>Coefficient of Correlation R2 + Dev Std:</u>	0,9920 ± 0,0065 Diacetylmorphine									
<u>Accuracy intra serie (relative error %) Levamisole:</u>	<table><tr><th>Ci</th><th>Cs</th></tr><tr><td>25 ng/ml</td><td>75 ng/ml</td></tr><tr><td>10,11%</td><td>4,70%</td></tr></table>	Ci	Cs	25 ng/ml	75 ng/ml	10,11%	4,70%			
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5 ng/ml	50 ng/ml	100 ng/ml								
9,47%	10,83%	9,86%								
<u>Coefficient of Correlation R2 + Dev Std:</u>	0,9921 ± 0,0035 Levamisole									
<u>Accuracy intra serie (relative error %) Tropacocaine:</u>	<table><tr><th>Ci</th><th>Cs</th></tr><tr><td>25 ng/ml</td><td>75 ng/ml</td></tr><tr><td>5,65%</td><td>2,29%</td></tr></table>	Ci	Cs	25 ng/ml	75 ng/ml	5,65%	2,29%			
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5 ng/ml	50 ng/ml	100 ng/ml								
4,52%	7,49%	9,34%								
<u>Coefficient of Correlation R2 + Dev Std:</u>	0,9915 ± 0,0055 Tropacocaine									
<u>Accuracy intra serie (relative error %) Benzocaine:</u>	<table><tr><th>Ci</th><th>Cs</th></tr><tr><td>25 ng/ml</td><td>75 ng/ml</td></tr><tr><td>3,78%</td><td>2,20%</td></tr></table>	Ci	Cs	25 ng/ml	75 ng/ml	3,78%	2,20%			
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5 ng/ml	50 ng/ml	100 ng/ml								
7,70%	8,07%	9,46%								

<u>Coefficient of Correlation R2 + Dev Std:</u>	0,9950 ± 0,0043 Benzocaine		
<u>Accuracy intra serie (relative error %)</u> <u>Nicotine:</u>	Ci	Cs	
	25 ng/ml	75 ng/ml	
	8,20%	2,30%	
<u>Accuracy inter serie (relative error %)</u> <u>Nicotine:</u>	Ci	Cs	
	25 ng/ml	75 ng/ml	
	9,15%	5,60%	
<u>Reproducibility intra serie (coefficient of variation %) Nicotine:</u>	C LLOQ	Cm	CUP
	5 ng/ml	50 ng/ml	100 ng/ml
	3,94%	7,46%	5,89%
<u>Reproducibility inter serie (coefficient of variation %) Nicotine:</u>	C LLOQ	Cm	CUP
	5 ng/ml	50 ng/ml	100 ng/ml
	4,16%	6,47%	6,27%
<u>Coefficient of Correlation R2 + Dev Std:</u>	0,9945 ± 0,0011 Nicotine		
<u>Accuracy intra serie (relative error %)</u> <u>Ephedrine:</u>	Ci	Cs	
	25 ng/ml	75 ng/ml	
	2,92%	1,27%	
<u>Accuracy inter serie (relative error %)</u> <u>Ephedrine:</u>	Ci	Cs	
	25 ng/ml	75 ng/ml	
	7,53%	9,16%	
<u>Reproducibility intra serie (coefficient of variation %) Ephedrine:</u>	C LLOQ	Cm	CUP
	5 ng/ml	50 ng/ml	100 ng/ml
	5,78%	7,80%	6,77%
<u>Reproducibility inter serie (coefficient of variation %) Ephedrine:</u>	C LLOQ	Cm	CUP
	5 ng/ml	50 ng/ml	100 ng/ml
	14,31%	7,84%	9,25%
<u>Coefficient of Correlation R2 + Dev Std:</u>	0,9911 ± 0,0064 Ephedrine		
<u>Accuracy intra serie (relative error %)</u> <u>Pseudoephedrine:</u>	Ci	Cs	
	25 ng/ml	75 ng/ml	
	3,50%	3,00%	
<u>Accuracy inter serie (relative error %)</u> <u>Pseudoephedrine:</u>	Ci	Cs	
	25 ng/ml	75 ng/ml	
	8,20%	8,60%	
<u>Reproducibility intra serie (coefficient of variation %) Pseudoephedrine:</u>	C LLOQ	Cm	CUP
	5 ng/ml	50 ng/ml	100 ng/ml
	6,60%	8,10%	7,30%
<u>Reproducibility inter serie (coefficient of variation %) Pseudoephedrine:</u>	C LLOQ	Cm	CUP
	5 ng/ml	50 ng/ml	100 ng/ml
	10,50%	9,60%	10,20%
<u>Coefficient of Correlation R2 + Dev Std:</u>	0,9911 ± 0,0064 Pseudoephedrine		

COMPONENTS OF THE KIT (100 TESTS)

Reagent A – Extraction Solution	1 x 500 ml	
Reagent B – Diluting Solution	1 x 100 ml	
Reagent C – Internal Standard Solution	1 x 6 ml	<u>Store at – 20 °C</u>
Reagent D – Stabilization Solution	1 x 100 ml	
Calibration Standard – Level 0	4 x 1,5 ml	<u>Store at – 20 °C</u>
Calibration Standard – Level 1	4 x 1,5 ml	<u>Store at – 20 °C</u>
Calibration Standard – Level 2	4 x 1,5 ml	<u>Store at – 20 °C</u>
Calibration Standard – Level 3	4 x 1,5 ml	<u>Store at – 20 °C</u>
Calibration Standard – Level 4	4 x 1,5 ml	<u>Store at – 20 °C</u>
Calibration Standard – Level 5	4 x 1,5 ml	<u>Store at – 20 °C</u>
Reagent M1 – Mobile Phase M1	4 x 500 ml	
Reagent M2 – Mobile Phase M2	2 x 500 ml	

All the Reagents are ready to use and stable for 3 years at 2-8 °C, except Calibration Standards and Reagent C that must be stored at -20 °C.

MINIMUM INSTRUMENTAL EQUIPMENT REQUIRED

LC-MS/MS Triple Quadrupole with binary pump

MRM mode, ESI positive/negative

OPTIONAL EQUIPMENT

Autosampler

Operational Computer

ANALYTICAL PROCEDURE FOR SOLID SUBSTANCES

STEP 1

Dispense into a pyrex of 10 ml:

- Weigh 20 mg of sample into a pyrex tube
- Add 5 mL of **Reagent A – Extraction Solution**

Vortex for 30 seconds

- Sonicate for 10 minutes
- Centrifuge for 10 minutes at 4000 rpm

STEP 2

Dispense into an Eppendorf tube:

- 490 µL of **Reagent B – Diluting Solution**
- 10 µL of supernatant from **STEP 1**

Vortex for 5 seconds

STEP 3

Dispense into a second Eppendorf tube:

- 350 µL of **Reagent B – Diluting Solution**
- 50 µL of sample from **STEP 2** (1° Eppendorf tube)

Vortex for 5 seconds

STEP 4

For the dosage of Cocaine dispense into a vial:

- 990 µL of Reagent D – Stabilization Solution
- 10 µL of sample from STEP 3 (2° Eppendorf tube)
- 20 µL of Reagent C – Internal Standard Solution

For the dosage of other Drugs of Abuse dispense into a vial:

- 900 µL of Reagent D – Stabilization Solution
- 100 µL of sample from STEP 3 (2° Eppendorf tube)
- 20 µL of Reagent C – Internal Standard Solution

ANALYTICAL PROCEDURE FOR LIQUID SUBSTANCES

STEP 1

Dispense into an Eppendorf tube:

- 990 µL of Reagent B – Diluting Solution
- 10 µL of Sample

STEP 2

Dispense into an Eppendorf tube:

- 990 µL of Reagent D – Stabilization Solution
- 10 µL of sample from PREVIOUS STEP
- 20 µL of Reagent C – Internal Standard Solution

Vortex for 5 seconds

Use as concentrations of LC20016 calibrators and LC20019 controls the concentrations referred to step 4a and multiply the sample result by 10,000 to obtain the concentration in mg/mL of the original sample.

PREPARATION OF CALIBRATORS AND CONTROLS

Dispense into a vial:

- 1 mL of Calibrator or Control
- 20 µL of **Reagent C** – Internal Standard Solution

INJECTION

- Inject 10 µl of solution in HPLC.

IDENTIFICATION OF ILLICIT SUBSTANCES in LC/MS - Warnings

NEW COLUMN TREATMENT

Install new analytical column HYPERSIL GOLD PFP (50 x 2,1 mm. 1.9 µm) thermostated at 40°C.

Disconnect the detector and flux 30 ml of a solution of H₂O : Methanol (20 : 80 v/v). Set flow at 300 µl / minute.

Do not recycle washing liquids

COLUMN CONDITIONING

Condition the column HYPERSIL GOLD PFP (50 x 2,1 mm. 1.9 µm) with a solution of H₂O : Mobile Phase M2 (95 : 5 v/v). Set flow at 400 µl / minute for 15 minutes and discharge the first 10 ml. Thermostated at 40°C.

It is NOT possible to do phase recirculation analysis.

If the T Amb of the Laboratory is > 20 °C, it is advisable to keep the Mobile Phase at 2-8 °C between one analytical session and the next.

COLUMN CLEANING

Disconnect the detector. Flux a solution of H₂O : Methanol (20 : 80 v/v) for 30 minutes and discharge it. Store the column in a solution of Mobile Phase M1 : Mobile Phase M2 (50 : 50 v/v)

AUTOSAMPLER NEEDLE WASHING

Methanol

GRADIENT SETTING

Time (min)	% M1 (PUMP A)	% M2 (PUMP B)	FLOW (µl/min)
0.2	95	5	400
8.0	25	75	400
8.1	0	100	400
10.0	0	100	400
10.1	95	5	400
15.0	95	5	400



eureka kit



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