

## Drugs of Abuse I – Serum / Whole Blood

2017-11

1.10

## For quality monitoring of quantitative measurements by chromatographic methods

These reference materials are produced on the basis of human matrices. The highly accurate manufacturing occurs in a very gentle way. Analytical matrix effects are almost excluded. We achieve this by granting a maximal conformity of the products' matrix with the matrix of the patients' sample.

## Medidrug® DOA-I S / VB

GC/MS(MS, (UP)LC-MS(MS)

Lyophilized serum- or whole blood based reference material for quality assurance of the determination of drugs of abuse. The indicated target values have been verified by independent accredited laboratories; the determinations themselves are respecting the guidelines RiLiBÄK (by the German Medical Association) and those by the GTFCh (Society for Toxicology and Forensic Chemistry in Germany).

## Medidrug® Basis-line S / VB

Lyophilized reference material for base line determination in different applications or as negative control (All components at 1.13 Blank Matrices).

Medidrug®			Serum				Whole Blood			
Drugs of Abuse			target values DOA-I S			target values Basis-line S	target values DoA-I VB			target values Basis-line VB
Gruppe	Analyte	unit	34 analytes Low	34 analytes Mid	34 analytes High	82 analytes (excerpt) Negativ	33 analytes Low	33 analytes Mid	33 analytes High	70 analytes (excerpt) Negativ
Amines / Amphetamines	Amphetamine	µg/L	25	90	150	< LOD	15	80	150	< LOD
	MBDB	µg/L	25	60	100	< LOD	15	60	100	< LOD
	MDA	µg/L	25	60	100	< LOD	15	60	100	< LOD
	MDE (MDEA)	µg/L	25	90	150	< LOD	15	80	150	< LOD
	MDMA („Ecstasy“)	µg/L	25	90	150	< LOD	15	80	150	< LOD
	Methamphetamine	µg/L	25	90	150	< LOD	15	80	150	< LOD
	Methylphenidate <b>-New-</b>	µg/L	10	30	60	< LOD	10	30	60	< LOD
Cannabinoids	THC	µg/L	1	10	15	< LOD	1	10	15	< LOD
	11-OH-THC	µg/L	1	5	10	< LOD	1	10	15	< LOD
	THC-COOH	µg/L	10	60	130	< LOD	10	50	100	< LOD
Cathinone	Mephedrone	µg/L	25	90	150	< LOD	15 <sup>1)</sup>	80 <sup>1)</sup>	150 <sup>1)</sup>	< LOD
	Methedrone	µg/L	25	90	150	< LOD	15	80	150	< LOD
	Methylone	µg/L	25	90	150	< LOD	15 <sup>1)</sup>	80 <sup>1)</sup>	150 <sup>1)</sup>	< LOD
Cocaine	Cocaine	µg/L	15	50	90	< LOD	15	50	80	< LOD
	Benzoyllecgonin (BE)	µg/L	50	200	400	< LOD	30	200	400	< LOD
	Cocaethylene	µg/L	10	60	100	< LOD	15	50	80	< LOD
	Ecgoninmethylester	µg/L	15	50	90	< LOD	15	50	80	< LOD
Opioids	6-MAM	µg/L	5	25	50	< LOD	5	25	50	< LOD
	Codeine	µg/L	10	60	100	< LOD	15	80	150	< LOD
	Dihydrocodeine (DHC)	µg/L	40	100	200	< LOD	30	100	200	< LOD
	Ethylmorphine <b>-New-</b>	µg/L	40	100	200	< LOD	30	100	200	< LOD
	Fentanyl	µg/L	1	5	10	< LOD	1	5	10	< LOD
	Norfentanyl <b>-New-</b>	µg/L	1	5	10	< LOD	1	5	10	< LOD
	Hydrocodone	µg/L	10	60	100	< LOD	10	60	100	< LOD
	Hydromorphone	µg/L	10	60	100	< LOD	10	60	100	< LOD
	Morphine	µg/L	10	60	100	< LOD	10	60	100	< LOD
	Oxycodone	µg/L	10	60	100	< LOD	10	60	100	< LOD
	Oxymorphon	µg/L	10	60	100	< LOD	10	60	100	< LOD
	Pholcodine <b>-New-</b>	µg/L	25	90	150	< LOD	15 <sup>1)</sup>	80 <sup>1)</sup>	150 <sup>1)</sup>	< LOD
	Tilidine <b>-New-</b>	µg/L	20	70	130	< LOD	25	80	150	< LOD
	Nortilidine <b>-New-</b>	µg/L	25	90	150	< LOD	-	-	-	< LOD
	Tramadol	µg/L	50	100	200	< LOD	100	200	400	< LOD
o-Desmethyltramadol	µg/L	100	200	400	< LOD	100	200	400	< LOD	
Piperazine	Benzylpiperazine	µg/L	10	60	100	< LOD	10	60	100	< LOD
<b>Order Information</b>			<b>REF</b>	<b>REF</b>	<b>REF</b>	<b>REF</b>	<b>REF</b>	<b>REF</b>	<b>REF</b>	<b>REF</b>
10 vials à 2,5 ml Lyophilisate			<b>24SL01GF</b>	<b>24SL02GF</b>	<b>24SL03GF</b>	<b>40151</b>	<b>24VL01GF</b>	<b>24VL02GF</b>	<b>24VL03GF</b>	<b>40161</b>
							<b>-New-</b>			

<sup>1)</sup> Verification for this parameter has not been finished yet.



The provided mixture of the controls and their respective analyte concentrations are for overview purposes only and may differ from the current available batches. For the internal quality control, only the designated specification of the respective batch of the information leaflet is valid.



All products conform to IVD Directive 98/79/EC  
Certified quality management according to DIN EN ISO 9001:2015  
DIN EN ISO 13485:2016

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Drugs of Abuse II – Hair

2015-04

1.11

Hair reference materials from cut hair for quality monitoring of quantitative analyses

The unique quality of these matrix reference materials is setting a new standard for hair analyses. The manufacturing principle is based upon a special procedure for reliable and non-destructive homogenization of hair fibres : Without milling and thus without the loss of their structural integrity. A precisely defined cutting length allows that after reduction, each processed hair fibre is present in extremely uniform segments of 1 mm length.

Medidrug® DOA 14 H-d, Level 0-6 **New**

GC-MS(-MS), LC-MS(-MS)

Lot series of extremely homogeneous hair reference materials in 7 relevant concentration levels, prepared from one single, meticulously homogenized drug-free hair pool of cut European human hair. These divided lots have been spiked gravimetrically with 47 drugs of abuse and their metabolites and MPPH as additive:

- L0 Negativ Control
- L1 Near the limits of quantification or detection (method-dependent)
- L2-4 In the cut-off ranges of different international professional societies ♦
- L5-6 Elevated ranges

- ♦ EWDTS (The European Workplace Drug Testing Society), GTFCh (Gesellschaft für Toxikologische und Forensische Chemie), SFTA (Société Française de Toxicologie Analytique), SGRM (Schweizerische Gesellschaft für Rechtsmedizin), SoHT (Society of Hair Testing)

Medidrug®			Hair – spiked						
Drugs of Abuse			DOA 14 H-d 47 analytes						
Group	Analytes	Unit	L0	L1	L2	L3	L4	L5	L6
Amphetamines	Amphetamine	pg/mg	0	60,0	119	240	549	1110	2030
	MBDB	pg/mg	0	57,4	114	230	525	1060	1940
	MDA	pg/mg	0	60,2	120	241	551	1120	2030
	MDE(A)	pg/mg	0	60,1	119	241	550	1110	2030
	MDMA	pg/mg	0	60,4	120	242	553	1120	2040
	Methamphetamine	pg/mg	0	60,0	119	240	549	1110	2030
Benzodiazepines + Z-Drugs	Alprazolam	pg/mg	0	2,53	25,1	63,4	231	585	1060
	OH-Alprazolam	pg/mg	0	1,73	17,2	43,4	158	400	728
	7-Aminoclonazepam	pg/mg	0	2,38	23,7	59,7	218	552	1000
	7-Aminoflunitrazepam	pg/mg	0	2,38	23,6	59,6	218	551	1000
	Bromazepam	pg/mg	0	2,40	23,8	60,1	219	555	1010
	Diazepam (Valium)	pg/mg	0	2,39	23,7	60,0	219	554	1010
	Flunitrazepam	pg/mg	0	2,42	24,0	60,7	221	560	1020
	Lorazepam	pg/mg	0	2,38	23,6	59,6	217	550	1000
	Midazolam	pg/mg	0	2,46	24,4	61,6	225	568	1030
	Nordiazepam	pg/mg	0	2,39	23,7	59,9	218	553	1010
	Oxazepam	pg/mg	0	2,38	23,7	59,7	218	552	1000
	Temazepam	pg/mg	0	2,38	23,6	59,6	217	550	1000
	Zolpidem	pg/mg	0	2,36	23,4	59,1	216	546	994
Cannabinoides	THC	pg/mg	0	12,0	23,8	60,0	110	556	1010
	CBD (Cannabidiol)	pg/mg	0	24,0	59,5	120	221	558	1020
	CBN (Cannabinol)	pg/mg	0	24,0	59,5	120	221	557	1020
	THC-COOH **	pg/mg	0	6,00	11,9	30,0	54,9	278	506
Cocaine	Anhydroecgonine methyl ester	pg/mg	0	25,3	62,7	126	577	1170	2670
	Benzoyllecgonine	pg/mg	0	23,7	58,9	118	541	1100	4990
	Cocaehtylene	pg/mg	0	24,2	59,9	120	552	1120	2550
	Cocaine	pg/mg	0	60,0	119	600	1100	5560	10100
	Ecgonine methyl ester	pg/mg	0	24,0	59,6	120	548	1110	5050
	Norcocaine	pg/mg	0	24,1	59,7	120	550	1110	2540
	Phencyclidine	pg/mg	0	27,7	68,6	138	631	1280	5810
Hallucinogenes	Ketamine	pg/mg	0	24,2	60,0	121	552	1120	2550
	Norketamine	pg/mg	0	24,0	59,4	120	547	1110	2530
	LSD	pg/mg	0	6,27	12,5	62,7	115	581	1060
	Phencyclidine	pg/mg	0	27,7	68,6	138	631	1280	5810
Opioids	Codeine	pg/mg	0	60,0	119	240	549	1110	2030
	Dihydrocodeine	pg/mg	0	60,2	120	241	551	1120	2030
	Fentanyl	pg/mg	0	5,97	11,9	59,8	110	554	1010
	Hydromorphone	pg/mg	0	23,7	58,8	118	219	551	1010
	Morphine	pg/mg	0	59,0	117	236	540	1090	1990
	6-MAM	pg/mg	0	58,9	117	236	539	1090	1990
	Norfentanyl	pg/mg	0	0,59	5,89	14,9	54,2	137	250
	Oxymorphone	pg/mg	0	24,1	59,7	120	222	559	1020
	Tilidine	pg/mg	0	23,9	59,3	119	220	555	1010
	Tramadol	pg/mg	0	23,9	59,3	119	546	1100	2520
	Substitution	Buprenorphine	pg/mg	0	5,98	11,9	59,9	110	555
Norbuprenorphine		pg/mg	0	5,97	11,9	59,7	110	554	1010
Methadone		pg/mg	0	60,4	120	242	553	1120	2040
EDDP		pg/mg	0	24,0	59,5	120	547	1110	5040
Additive	MPPH	pg/mg	0	1053	992	1009	1001	1017	932
<b>Order Information</b>			<a href="#">REF</a>	<a href="#">REF</a>	<a href="#">REF</a>	<a href="#">REF</a>	<a href="#">REF</a>	<a href="#">REF</a>	<a href="#">REF</a>
1 x 100 mg (vial)			<a href="#">24HL00VA</a>	<a href="#">24HL01VA</a>	<a href="#">24HL02VA</a>	<a href="#">24HL03VA</a>	<a href="#">24HL04VA</a>	<a href="#">24HL05VA</a>	<a href="#">24HL06VA</a>
			<a href="#">LOT</a>	<a href="#">LOT</a>	<a href="#">LOT</a>	<a href="#">LOT</a>	<a href="#">LOT</a>	<a href="#">LOT</a>	<a href="#">LOT</a>

**LOT** Proficiency test control which catalogue code (REF) defines a singular lot (batch). After expiry of the validity or after being sold out this product is no longer available. New lots with similar compositions of components will be offered with a different catalog code.

\*\* The concentrations for THC-COOH - which are too high - do not correspond to the normal measurement ranges.



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Drugs of Abuse III – Urine

2018-07

1.12

**For quality monitoring of quantitative measurements by chromatographic methods**

These reference materials are produced on the basis of human matrices. The highly accurate manufacturing occurs in a very gentle way. Analytical matrix effects are almost excluded. We achieve this by granting a maximal conformity of the products matrix with the matrix of the patients' sample.

Medidrug® **WDT Confirm. U**

GC/MS(MS), (UP)LC-MS(MS)


Lyophilized urine control, prepared from human urine containing drugs and medications. The concentrations of the added substances are -25 % respectively +25 % of the recommended cut-off by **EWDTs**<sup>1)</sup> for confirmation test. The indicated target values have been verified by independent accredited laboratories.

Medidrug® **Basis-line U**

Lyophilized reference material, prepared from human urine for base-line determination in different applications or as negative control. (All components at 1.13 Blank Matrices).

Medidrug®			Urine			
Workplace Drug Testing According to EWDTs limits <sup>1)</sup>			target values <b>WDT Confirm. U</b> 55 analytes		target values <b>Basis-line U</b> 71 analytes (excerpt)	
Group	Analyte	Unit	Cut-off -25%	Cut-off +25%	Negative	
Amphetamines	Amphetamine	µg/L	150	250	< LOD	
	MBDB	µg/L	150	250	< LOD	
	MDA	µg/L	150	250	< LOD	
	MDE (MDEA)	µg/L	150	250	< LOD	
	MDMA („Ecstasy“)	µg/L	150	250	< LOD	
	Methamphetamine	µg/L	150	250	< LOD	
Barbiturates	Phenobarbital	-New- µg/L	112,5	187,5	< LOD	
	Secobarbital	µg/L	112,5	187,5	< LOD	
Benzodiazepines and Z-Drugs	Alprazolam	-New- µg/L	75	125	< LOD	
	Bromazepam	µg/L	75	125	< LOD	
	Clonazepam	-New- µg/L	75	125	< LOD	
	Diazepam	-New- µg/L	75	125	< LOD	
	Desmethildiazepam	-New- µg/L	75	125	< LOD	
	Flunitrazepam	-New- µg/L	75	125	< LOD	
	7-Aminoflunitrazepam	µg/L	75	125	< LOD	
	Flurazepam	-New- µg/L	75	125	< LOD	
	Lorazepam	-New- µg/L	75	125	< LOD	
	Lormetazepam	-New- µg/L	75	125	< LOD	
	Midazolam	-New- µg/L	75	125	< LOD	
	Nitrazepam	-New- µg/L	75	125	< LOD	
	OH-Alprazolam	-New- µg/L	75	125	< LOD	
	OH-Bromazepam	-New- µg/L	75	125	< LOD	
	Oxazepam	µg/L	75	125	< LOD	
	Phenazepam	-New- µg/L	75	125	< LOD	
	Temazepam	-New- µg/L	75	125	< LOD	
	Zaleplon	-New- µg/L	75	125	< LOD	
	Zolpidem	µg/L	75	125	< LOD	
	Zopiclone	-New- µg/L	75	125	< LOD	
Cannabinoid	THC-COOH	µg/L	11,25	18,75	< LOD	
Cathinones	Mephedrone	-New- µg/L	150	250	< LOD	
	Methylendioxypropylvalerone (MDPV)	-New- µg/L	150	250	< LOD	
Cocaine	Benzoylcocgonine	µg/L	75	125	< LOD	
	Ecgonin methyl ester	µg/L	112,5	187,5	< LOD	
Hallucinogenes	Ketamine	-New- µg/L	150	250	< LOD	
Opioids	6-MAM (6-Monoacetyl morphine)	µg/L	7,5	12,5	< LOD	
	Codeine	µg/L	225	375	< LOD	
	Dihydrocodeine	µg/L	225	375	< LOD	
	Norcodeine	-New- µg/L	37,5	62,5	-	
	Fentanyl	-New- µg/L	7,5	12,5	< LOD	
	Hydromorphone	-New- µg/L	75	125	< LOD	
	Morphine	µg/L	225	375	< LOD	
	Morphin-3-β-D-glucuronide	µg/L	225	375	< LOD	
	Oxycodone	-New- µg/L	75	125	< LOD	
	Oxymorphone	-New- µg/L	75	125	< LOD	
	Propoxyphene	-New- µg/L	225	375	< LOD	
	Tilidine	-New- µg/L	150	250	< LOD	
	Tramadol	-New- µg/L	75	125	< LOD	
	Substitution Opioids	Buprenorphine	µg/L	1,5	2,5	< LOD
		Norbuprenorphine	µg/L	1,5	2,5	< LOD
		Methadone	µg/L	187,5	312,5	< LOD
EDDP		µg/L	56,25	106,25	< LOD	
Other Analytes	LSD	µg/L	0,75	1,25	< LOD	
	Methaqualone	µg/L	225	375	< LOD	
	Phencyclidine (PCP)	µg/L	18,75	31,25	< LOD	
	Pregabalin	-New- µg/L	525	875	< LOD	
<b>Order Information</b>			<b>REF</b>	<b>REF</b>	<b>REF</b>	
9 vials à 5 mL			<b>27U Q01 KE</b>	<b>27U Q02 KE</b>	<b>40201</b>	
Lyophilisate						

<sup>1)</sup> EWDTs: European Workplace Drug Testing Society – European Guidelines for Workplace Drug Testing in Urine, 2015-11-01 Version 2.0 (pp 1-40)



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All products conform to IVD Directive 98/79/EC  
 Certified quality management according to DIN EN ISO 9001:2015  
 DIN EN ISO 13485:2016



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## For quality monitoring of quantitative measurements

These reference materials are produced on the basis of human matrices. The highly accurate manufacturing occurs in a very gentle way. Analytical matrix effects are almost excluded. We achieve this by granting a maximal conformity of the products' matrix with the matrix of the patients' sample.

## Medidrug® Basis-line H

Authentic hair reference material, prepared from multiple European hair donors and homogenized by cutting into pieces of 1 mm. For negative control of analytical procedures for the determination of narcotics and therapeutic drugs in hair as well as for base-line determination in different applications in analytical laboratories.

## Medidrug® Basis-line S / U / VB

Lyophilized serum-, urine- or whole blood-based reference material. For base-line determination in different applications or as negative control.

GC-MS, HPLC, LC-MS

Medidrug®	Hair	Serum	Urine	Whole Blood
<b>Blank Matrices</b>	<b>Basis-line H-a</b>	<b>Basis-line S</b>	<b>Basis-line U</b>	<b>Basis-line VB</b>
<b>Analyte Groups</b>	38 analytes	82 analytes	71 analytes	70 analytes
Amines / Amphetamines	Amphetamine, MDA, MDE (MDEA), MDMA („Ecstasy“), Methamphetamine	Amphetamine, MBDB, MDA, MDE (MDEA), MDMA („Ecstasy“), Methamphetamine, Methylphenidate	Amphetamine, MBDB, MDA, MDE (MDEA), MDMA („Ecstasy“), Methamphetamine	Amphetamine, MBDB, MDA, MDE (MDEA), MDMA („Ecstasy“), Methamphetamine, Methylphenidate
Barbiturates			Phenobarbital, Secobarbital	
Benzodiazepines & Z-Drugs	Alprazolam, Bromazepam	Alprazolam, $\alpha$ -Hydroxyalprazolam, Bromazepam	Alprazolam, $\alpha$ -Hydroxyalprazolam, Bromazepam, 3-Hydroxybromazepam	Alprazolam, $\alpha$ -Hydroxyalprazolam, Bromazepam
	Diazepam, Desmethyldiazepam	Clobazam, Desmethyloclobazam, Clonazepam, 7-Aminoclonazepam, Diazepam, Desmethyldiazepam	Chlordiazepoxide, Clobazam, Clonazepam, 7-Aminoclonazepam, Demoxepam, Diazepam, N-Desmethyldiazepam	Clobazam, Desmethyloclobazam, Diazepam, Desmethyldiazepam
	Flunitrazepam, 7-Aminoflunitrazepam, Lorazepam	Flunitrazepam, 7-Aminoflunitrazepam, Desmethyflunitrazepam, Flurazepam, Desalkylflurazepam, Lorazepam, Lormetazepam, Midazolam, Nitrazepam, 7-Aminonitrazepam	Flunitrazepam, 7-Aminoflunitrazepam, N-Desmethyflunitrazepam, Flurazepam, N-Desalkylflurazepam, Lorazepam, Lormetazepam, Midazolam, 1-Hydroxymidazolam, Nitrazepam, 7-Aminonitrazepam	Flunitrazepam, 7-Aminoflunitrazepam, Desmethyflunitrazepam, Flurazepam, Desalkylflurazepam, Lorazepam, Lormetazepam, Midazolam, Nitrazepam, 7-Aminonitrazepam
	Oxazepam, Zolpidem	Oxazepam, Phenazepam, Prazepam, Temazepam, Tetrazepam, Triazolam, Zolpidem, Zopiclone	Oxazepam, Phenazepam, Temazepam, Tetrazepam, Triazolam, Zaleplon, Zolpidem, Zopiclone	Oxazepam, Phenazepam, Prazepam, Temazepam, Tetrazepam, Triazolam, Zolpidem, Zopiclone
Cannabinoids & Metabolites	THC, CBD (Cannabidiol), CBN (Cannabinol)	THC, 11-OH-THC, THC-COOH	THC-COOH	THC, 11-OH-THC, THC-COOH
Cathinones		Mephedrone, Methedrone, Methylen	Mephedrone, MDPV (Methylenedioxypropylrovalerone)	Mephedrone, Methedrone, Methylen
Cocaine & Metabolites	Cocaine, Norcocaine, Benzoyllecgonine, Cocaethylene, Ecgonine methyl ester, Anhydroecgonine methyl ester	Cocaine, Benzoyllecgonine, Cocaethylene, Ecgonine methyl ester	Cocaine, Benzoyllecgonine, Ecgonine methyl ester	Cocaine, Benzoyllecgonine, Cocaethylene, Ecgonine methyl ester
Congener Alcohols		Acetone, 2-Butanon, 2-Butanol, 1-Propanol, 2-Propanol, 2-Methyl-1-Propanol (Isobutanol), 1-Butanol, 2-Methyl-1-butanol, 3-Methyl-2-butanol, Methanol		
Ethanol / Metabolite	EtG (Ethyl glucuronide)	Ethanol	EtG (Ethyl glucuronide), EtS (Ethyl sulfate)	
GHB		GHB (4-Hydroxybutansäure)	GHB (4-Hydroxybutansäure)	GHB (4-Hydroxybutansäure)
Hallucinogens		LSD	Ketamine, LSD, Methaqualone, PCP (Phencyclidine)	LSD
Opioids & Metabolites	6-MAM (6-Monoacetylmorphin), Codeine, Dihydrocodeine, Diacetylmorphine (Heroin)	6-MAM (6-Monoacetylmorphine), Codeine, Acetylcodeine, Dihydrocodeine	6-MAM (6-Monoacetylmorphine), Codeine, Dihydrocodeine	6-MAM (6-Monoacetylmorphine), Acetylcodeine, Codeine, Dihydrocodeine
	Fentanyl, Morphine	Fentanyl, Norfentanyl, Hydrocodone, Hydromorphone, Morphine, Dihydromorphine, Ethyl morphine	Fentanyl, Norfentanyl, Morphine, Morphine-3- $\beta$ -D-glucuronide, Hydromorphone	Fentanyl, Norfentanyl, Hydrocodone, Hydromorphone, Morphine, Dihydromorphine, Ethyl morphine
	Oxycodone, Oxymorphone	Oxycodone, Oxymorphone, Pholcodine	Oxycodone, Oxymorphone, Pregabalin, Propoxyphen	Oxycodone, Oxymorphone, Pholcodine
	Tilidine, Nortilidine, Tramadol, Nortramadol	Tapentadol, Tilidine, Nortilidine, Bisnortilidine, Tramadol, $\alpha$ -Desmethyl-tramadol	Tilidine, Nortilidine, Tramadol, $\alpha$ -Desmethyltramadol	Tapentadol, Tilidine, Nortilidine, Tramadol, $\alpha$ -Desmethyltramadol
Substitution Opioids	Buprenorphine, Norbuprenorphine, Methadone, EDDP	Buprenorphine, Norbuprenorphine, Methadone, EDDP	Buprenorphine, Norbuprenorphine, Methadone, EDDP	Buprenorphine, Norbuprenorphine, Methadone, EDDP
Piperazines		Benzylpiperazine		Benzylpiperazine
<b>Order Information</b>	<b>REF</b> Vial à 100 mg: <b>00HL00VA</b> Vial à 300 mg: <b>00HL00XA</b> 1-mm-cut	<b>REF</b> <b>40151</b> 10 vials for 2,5 mL Lyophilisate	<b>REF</b> <b>40201</b> 9 vials for 5 mL Lyophilisate	<b>REF</b> <b>40161</b> 10 vials for 2,5 mL Lyophilisate

**40201** Basis-line U: Bisoprolol detected in therapeutic range (ca. 400 µg/L)



The provided mixture of the controls and their respective analyte concentrations are for overview purposes only and may differ from the current available batches. For the internal quality control, only the designated specification of the respective batch of the information leaflet is valid.



All products conform to IVD Directive 98/79/EC  
Certified quality management according to DIN EN ISO 9001:2015  
DIN EN ISO 13485:2016

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## Clinical and Forensic Toxicology

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REF	Product	Unit	€	REF	Product	Unit	€
<b>1.10 Drugs of Abuse I – Serum and Whole Blood</b>							
24S L01 GF	Medidrug® DOA-I S low	10 x 2.5 mL	235,00				
24S L02 GF	Medidrug® DOA-I S mid	10 x 2.5 mL	235,00				
24S L03 GF	Medidrug® DOA-I S high	10 x 2.5 mL	235,00				
24V L01 GF	Medidrug® DOA-I VB low	10 x 2.5 mL	245,00				
<b>NEW</b> 24V L02 GF	Medidrug® DOA-I VB mid	10 x 2.5 mL	245,00				
24V L03 GF	Medidrug® DOA-I VB high	10 x 2.5 mL	245,00				
40151	Medidrug® Basis-line S (neg.)	10 x 2.5 mL	95,00				
40161	Medidrug® Basis-line VB (neg.)	10 x 2.5 mL	110,00				

**1.11 Drugs of Abuse II – Hair (1-mm-cut)****Authentic Hair Samples**

00H L00 VA	Medidrug® Basis-line H-a (neg.)	1 x 100 mg	☹
00H L00 XA	Medidrug® Basis-line H-a (neg.)	1 x 300 mg	☹

Not available yet: Medidrug® Cannabinoide H II – 2 levels 1 x 100 mg ☹  
 → For details refer to [www.medicchem.de/PDF\\_HI\\_E.pdf](http://www.medicchem.de/PDF_HI_E.pdf)

**Incorporated / Soaked Hair Samples**

Not available yet:	Medidrug® Amphetamine H – 4 levels	1 x 100 mg	☹
Not available yet:	Medidrug® Benzodiazepine H	1 x 100 mg	☹
Not available yet:	Medidrug® Cannabinoide H I	1 x 100 mg	☹
Not available yet:	Medidrug® Cannabinoide H II	1 x 100 mg	☹
Not available yet:	Medidrug® Cocaine H – 2 levels	1 x 100 mg	☹
Not available yet:	Medidrug® Opioid H – 3 levels	1 x 100 mg	☹
Not available yet:	Medidrug® Substitution, DOA – 4 levels	1 x 100 mg	☹

→ For details refer to [www.medicchem.de/PDF\\_HI\\_E.pdf](http://www.medicchem.de/PDF_HI_E.pdf)

**Spiked Hair Samples**

<b>LOT</b> 24H L00 VA	Medidrug® DOA 14 H-d L0	1 x 100 mg	☹
<b>LOT</b> 24H L01 VA	Medidrug® DOA 14 H-d L1	1 x 100 mg	☹
<b>LOT</b> 24H L02 VA	Medidrug® DOA 14 H-d L2	1 x 100 mg	☹
<b>LOT</b> 24H L03 VA	Medidrug® DOA 14 H-d L3	1 x 100 mg	☹
<b>LOT</b> 24H L04 VA	Medidrug® DOA 14 H-d L4	1 x 100 mg	☹
<b>LOT</b> 24H L05 VA	Medidrug® DOA 14 H-d L5	1 x 100 mg	☹
<b>LOT</b> 24H L06 VA	Medidrug® DOA 14 H-d L6	1 x 100 mg	☹

→ For details refer to [www.medicchem.de/PDF\\_HI\\_E.pdf](http://www.medicchem.de/PDF_HI_E.pdf)

**1.12 Drugs of Abuse III – Urine**

27U Q01 KE	Medidrug® WDT Confirm U -25% formerly Drug U-Confirmation -25%	9 x 5 mL	295,00
27U Q02 KE	Medidrug® WDT Confirm U +25% formerly Drug U-Confirmation +25%	9 x 5 mL	295,00
40201	Medidrug® Basis-line U (neg.)	9 x 5 mL	65,00

**1.13 Blank Matrices – Hair, Serum, Urine and Whole Blood**

00H L00 VA	Medidrug® Basis-line H-a (neg.)	1 x 100 mg	☹
00H L00 XA	Medidrug® Basis-line H-a (neg.)	1 x 300 mg	☹
40151	Medidrug® Basis-line S (neg.)	10 x 2.5 mL	95,00
40161	Medidrug® Basis-line VB (neg.)	10 x 2.5 mL	110,00
40201	Medidrug® Basis-line U (neg.)	9 x 5 mL	65,00

☹ Product cancelled

€ Prices in Euro exclusive of VAT and/or taxes

☹ Product / price available on request

▶ Product available only as long as still on stock – will be cancelled

**LOT**

Product has been produced especially for an external quality control (proficiency testing). The catalogue code **REF** refers to a singular lot (batch). After expiry of the validity or being sold out it is no longer available. If possible new lots with similar compositions of components will be offered with a different catalogue code.