

**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® CTU Confirm. U**

Lyophilized reference material for quality control of confirmation analysis, prepared from human urine. The concentrations of the added substances for chemical-toxicological analysis -CTU<sup>1)</sup>- are -25 % respectively +25 % of the recommended cut-offs. Further substances and their target values suit to the CTU criteria<sup>2)</sup>. All 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		
Diagnostic for Drugs, Medicaments and Alcohol Consumption Markers (suit to CTU criteria) <sup>1)</sup>			target values <b>CTU Confirm. U</b> 59 analytes		target values <b>Basis-line U</b> 71 analytes (excerpt)
Group	Analyte	Unit	Cut-off -25%	Cut-off +25%	Negative
Alcohols	Ethyl glucuronide	µg/L	75	125	< LOD
	Ethyl sulfate <sup>2)</sup>	µg/L	75*	125*	< LOD
Amphetamines	Amphetamine	µg/L	37,5	62,5	< LOD
	MBDB <sup>2)</sup>	µg/L	37,5	62,5	< LOD
	MDA	µg/L	37,5	62,5	< LOD
	MDE (MDEA)	µg/L	37,5	62,5	< LOD
	MDMA („Ecstasy“)	µg/L	37,5	62,5	< LOD
	Methamphetamine	µg/L	37,5	62,5	< LOD
Barbiturates	Phenobarbital <sup>2)</sup>	µg/L	22,5*	37,5*	< LOD
	Secobarbital <sup>2)</sup>	µg/L	22,5*	37,5*	< LOD
Benzodiazepines and Z-Drugs	Alprazolam <sup>2)</sup>	µg/L	37,5	62,5	< LOD
	OH-Alprazolam	µg/L	37,5	62,5	< LOD
	Bromazepam	µg/L	37,5	62,5	< LOD
	OH-Bromazepam	µg/L	37,5	62,5	< LOD
	Clonazepam <sup>2)</sup>	µg/L	37,5*	62,5*	< LOD
	7-Aminoclonazepam <sup>2)</sup>	µg/L	37,5*	62,5*	< LOD
	Diazepam	µg/L	37,5	62,5	< LOD
	Desmethyldiazepam	µg/L	37,5	62,5	< LOD
	Flunitrazepam <sup>2)</sup>	µg/L	37,5*	62,5*	< LOD
	7-Aminoflunitrazepam	µg/L	37,5	62,5	< LOD
	Flurazepam <sup>2)</sup>	µg/L	37,5*	62,5*	< LOD
	Lorazepam	µg/L	37,5	62,5	< LOD
	Lormetazepam <sup>2)</sup>	µg/L	37,5	62,5	< LOD
	Midazolam <sup>2)</sup>	µg/L	37,5	62,5	< LOD
	Nitrazepam <sup>2)</sup>	µg/L	37,5*	62,5*	< LOD
	Oxazepam	µg/L	37,5	62,5	< LOD
	Phenazepam <sup>2)</sup>	µg/L	37,5*	62,5*	< LOD
Temazepam <sup>2)</sup>	µg/L	37,5	62,5	< LOD	
Zaleplon <sup>2)</sup>	µg/L	37,5	62,5	< LOD	
Zolpidem <sup>2)</sup>	µg/L	37,5	62,5	< LOD	
Zopiclone <sup>2)</sup>	µg/L	37,5	62,5	< LOD	
Cannabinoid	THC-COOH	µg/L	7,5	12,5	< LOD
Cathinones	Mephedrone <sup>2)</sup>	µg/L	37,5*	62,5*	< LOD
	Methylendioxypropylvalerone (MDPV) <sup>2)</sup>	µg/L	37,5*	62,5*	< LOD

<sup>1) 2)</sup> **CTU**: Chemical-toxicological analysis: Evaluation for driving fitness (guidelines DGVP & DGVM in Germany)

\* Guide value; for more information please request the CoA at [info@medichem.de](mailto:info@medichem.de).

### Information about further analytes groups (Cocaine, Hallucinogens, Opioids and Substitutions for Opioids) as well as about the package content and order information: please see following page



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

**Contact us:**

+ 49 (0)7157 / 5304 - 100

+ 49 (0)7157 / 5304 - 11

[info@medichem.de](mailto:info@medichem.de)

## Drugs of Abuse III – Urine

2021-08

1.12

For quality monitoring of quantitative measurements by chromatographic methods

Medidrug® **CTU Confirm. U**Medidrug® **Basis-line U**

Medidrug®			Urine		
Diagnostic for Drugs, Medicaments and Alcohol Consumption Markers (suit to CTU criteria) <sup>1</sup>			target values <b>CTU Confirm. U</b> 59 analytes		target values <b>Basis-line U</b> 71 analytes (excerpt)
Group	Analyte	Unit	Cut-off -25%	Cut-off +25%	Negative
Cocaine	Benzoylecgonine	µg/L	22,5	37,5	< LOD
	Ecgonine methyl ester <sup>2)</sup>	µg/L	22,5	37,5	< LOD
Hallucinogens	Ketamine <sup>2)</sup>	µg/L	37,5	62,5	< LOD
	LSD <sup>2)</sup>	µg/L	0,38	0,63	< LOD
	Methaqualone <sup>2)</sup>	µg/L	18,75*	31,25*	< LOD
	Phencyclidine (PCP) <sup>2)</sup>	µg/L	18,75	31,25	< LOD
Opioids	6-MAM (6-Monoacetylmorphine) <sup>2)</sup>	µg/L	7,5	12,5	< LOD
	Codeine	µg/L	18,75	31,25	< LOD
	Dihydrocodeine	µg/L	18,75	31,25	< LOD
	Norcodeine <sup>2)</sup>	µg/L	37,5*	62,5*	-
	Fentanyl	µg/L	7,5	12,5	< LOD
	Norfentanyl	µg/L	7,5	12,5	< LOD
	Hydromorphone <sup>2)</sup>	µg/L	37,5	62,5	< LOD
	Morphine	µg/L	18,75	31,25	< LOD
	Oxycodone	µg/L	37,5	62,5	< LOD
	Oxymorphone <sup>2)</sup>	µg/L	37,5	62,5	< LOD
	Propoxyphene <sup>2)</sup>	µg/L	18,75	31,25	< LOD
	Tilidine	µg/L	37,5	62,5	< LOD
	Nortilidine <sup>2)</sup>	µg/L	48,75	81,25	< LOD
	Tramadol	µg/L	37,5	62,5	< LOD
O-Desmethyltramadol	µg/L	37,5	62,5	< LOD	
Substitution for Opioids	Buprenorphine <sup>2)</sup>	µg/L	1,5	2,5	< LOD
	Norbuprenorphine <sup>2)</sup>	µg/L	1,5	2,5	< LOD
	Methadone	µg/L	37,5	62,5	< LOD
	EDDP	µg/L	37,5	62,5	< LOD
<b>Order Information</b>			<b>REF</b>	<b>REF</b>	<b>REF</b>
12 vials à 3 mL			<b>26U Q01 HL</b>	<b>26U Q02 HL</b>	<b>40201</b>
Lyophilisate					

<sup>1)2)</sup> **CTU**: Chemical-toxicological analysis: Evaluation for driving fitness (guidelines DGVP & DGVM in Germany)\* Guide value; for more information please request the CoA at [info@medichem.de](mailto:info@medichem.de)

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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 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. As negative control or base-line determination in different applications.

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>	63 analytes	91 analytes	71 analytes	76 analytes
Alcohol Consumption Markers	EtG (Ethyl glucuronide)	Ethanol	EtG (Ethyl glucuronide), EtS (Ethyl sulfate)	
Amines / Amphetamines	Amphetamine, MDA, MDE (MDEA), MDMA („Ecstasy“), Methamphetamine, Methylphenidate	Amphetamine, MBDB, MDA, MDE (MDEA), MDMA („Ecstasy“), Methamphetamine, Methylphenidate, Ritalinic Acid	Amphetamine, MBDB, MDA, MDE (MDEA), MDMA („Ecstasy“), Methamphetamine	Amphetamine, MBDB, MDA, MDE (MDEA), MDMA („Ecstasy“), Methamphetamine, Methylphenidate
Barbiturates			Phenobarbital, Secobarbital	
Benzodiazepines / Z-Drugs / Thienodiazepines	Alprazolam, Bromazepam  Clobazam, N-Desmethyloclobazam, Clonazepam, 7-Aminoclonazepam, Demoxepam, Diazepam, Desmethyldiazepam  Flunitrazepam, 7-Aminoflunitrazepam, Flurazepam, Desalkylflurazepam, Lorazepam, Midazolam, Nitrazepam, 7-Aminonitrazepam  Oxazepam, Temazepam, Tetrazepam, Triazolam, Zolpidem, Zopiclone	Alprazolam, α-Hydroxyalprazolam, Bromazepam, 2-Amino-5-chloropyridine (ACP), 3-Hydroxybromazepam  Chlordiazepoxide, Clobazam, Desmethyloclobazam, Clonazepam, 7-Aminoclonazepam, Demoxepam, Diazepam, Desmethyldiazepam, Etizolam  Flunitrazepam, 7-Aminoflunitrazepam, Desmethyflunitrazepam, Flurazepam, Desalkylflurazepam, Lorazepam, Lormetazepam, Midazolam, α-Hydroxymidazolam, Nitrazepam, 7-Aminonitrazepam  Oxazepam, Phenazepam, Prazepam, Temazepam, Tetrazepam, Triazolam, Zaleplon, Zolpidem, Zopiclone	Alprazolam, α-Hydroxyalprazolam, Bromazepam, 3-Hydroxybromazepam  Chlordiazepoxide, Clobazam, Clonazepam, 7-Aminoclonazepam, Demoxepam, Diazepam, N-Desmethyldiazepam  Flunitrazepam, 7-Aminoflunitrazepam, N-Desmethyflunitrazepam, Flurazepam, N-Desalkylflurazepam, Lorazepam, Lormetazepam, Midazolam, 1-Hydroxymidazolam, Nitrazepam, 7-Aminonitrazepam  Oxazepam, Phenazepam, Temazepam, Tetrazepam, Triazolam, Zaleplon, Zolpidem, Zopiclone	Alprazolam, α-Hydroxyalprazolam, Bromazepam, 2-Amino-5-chloropyridine (ACP)  Chlordiazepoxide, Clobazam, Desmethyloclobazam, Clonazepam, 7-Aminoclonazepam, Demoxepam, Diazepam, Desmethyldiazepam, Etizolam  Flunitrazepam, 7-Aminoflunitrazepam, Desmethyflunitrazepam, Flurazepam, Desalkylflurazepam, Lorazepam, Lormetazepam, Midazolam, Hydroxymidazolam, Nitrazepam, 7-Aminonitrazepam  Oxazepam, Phenazepam, Prazepam, Temazepam, Tetrazepam, Triazolam, Zaleplon, Zolpidem, Zopiclone
Cannabinoids	THC, CBD (Cannabidiol), CBN (Cannabinol)	CBD (Cannabidiol), THC, 11-OH-THC, THC-COOH	THC-COOH	CBD (Cannabidiol), THC, 11-OH-THC, THC-COOH
Cathinones		Mephedrone, Methedrone, Methylone	Mephedrone, MDPV (Methylenedioxypropylvalerone)	Mephedrone, Methedrone, Methylone
Cocaine	Cocaine, Norcocaine, Benzoylecgonine, Cocaethylene, Ecgonine methyl ester, Anhydroecgonine methyl ester	Cocaine, Benzoylecgonine, Cocaethylene, Ecgonine methyl ester	Cocaine, Benzoylecgonine, Ecgonine methyl ester	Cocaine, Benzoylecgonine, Cocaethylene, Ecgonine methyl ester
Congener Alcohols		Acetone, 1-Butanol, 2-Butanol, 2-Butanon, Methanol, 2-Methyl-1-butanol, 3-Methyl-2-butanol, 2-Methyl-1-Propanol, 1-Propanol, 2-Propanol		
GHB		GHB (4-hydroxybutanoic acid)	GHB (4-hydroxybutanoic acid)	GHB (4-hydroxybutanoic acid)
Hallucinogens	Ketamine, Norketamine	LSD	Ketamine, LSD, Methaqualone, PCP (Phencyclidine)	LSD
Opioids	6-MAM (6-Monoacetylmorphine), Codeine, 6-Acetylcodeine, Dihydrocodeine, Diacetylmorphine (Heroin)  Fentanyl, Norfentanyl, Hydrocodone, Morphine, 6-Acetylmorphine, Hydromorphone  Oxycodone, Oxymorphone  Tilidine, Nortilidine, Tramadol, N-Desmethyltramadol, o-Desmethyltramadol	6-MAM (6-Monoacetylmorphine), Codeine, Acetylcodeine, Dihydrocodeine  Fentanyl, Norfentanyl, Hydrocodone, Hydromorphone, Morphine, Dihydromorphine, Ethyl morphine  Oxycodone, Oxymorphone, Pholcodine  Tapentadol, Tilidine, Nortilidine, Bisnortilidine, Tramadol, o-Desmethyltramadol	6-MAM (6-Monoacetylmorphine), Codeine, Dihydrocodeine  Fentanyl, Norfentanyl, Morphine, Morphin-3-β-D-glucuronide, Hydromorphone  Oxycodone, Oxymorphone, Pregabalin, Propoxyphen  Tilidine, Nortilidine, Tramadol, o-Desmethyltramadol	6-MAM (6-Monoacetylmorphine), Acetylcodeine, Codeine, Dihydrocodeine, Ethyl morphine  Fentanyl, Norfentanyl, Hydrocodone, Hydromorphone, Morphine  Oxycodone, Oxymorphone, Pholcodine  Tapentadol, Tilidine, Nortilidine, Tramadol, o-Desmethyltramadol
Opioids (Substitution)	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



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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>							
24SL01GF	Medidrug® DOA-I S low	10 x 2.5 mL	280,00				
24SL02GF	Medidrug® DOA-I S mid	10 x 2.5 mL	280,00				
24SL03GF	Medidrug® DOA-I S high	10 x 2.5 mL	280,00				
24VL01GF	Medidrug® DOA-I VB low	10 x 2.5 mL	290,00				
24VL02GF	Medidrug® DOA-I VB mid	10 x 2.5 mL	290,00				
24VL03GF	Medidrug® DOA-I VB high	10 x 2.5 mL	290,00				
40151	Medidrug® Basis-line S (neg.)	10 x 2.5 mL	110,00				
40161	Medidrug® Basis-line VB (neg.)	10 x 2.5 mL	130,00				

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

24HL00VA	Medidrug® DOA (14) H-d L0	1 x 100 mg	🕒
24HL01VA	Medidrug® DOA (14) H-d L1	1 x 100 mg	🕒
24HL02VA	Medidrug® DOA (14) H-d L2	1 x 100 mg	🕒
24HL03VA	Medidrug® DOA H-d L3	1 x 100 mg	🕒
24HL04VA	Medidrug® DOA (14) H-d L4	1 x 100 mg	🕒
24HL05VA	Medidrug® DOA 14 H-d L5	1 x 100 mg	🕒
<b>-NEW-</b> 24HL05VA-N	Medidrug® DOA H-d L5 (New concentration)	1 x 100 mg	🕒
24HL06VA	Medidrug® DOA 14 H-d L6	1 x 100 mg	🕒

**Authentic Hair Samples**

00HL00VA	Medidrug® Basis-line H-a (neg.)	1 x 100 mg	🕒
00HL00XA	Medidrug® Basis-line H-a (neg.)	1 x 300 mg	🕒

**1.12 Drugs of Abuse III – Urine**

<b>-NEW-</b> 26UQ01HL	Medidrug® CTU Confirm U -25%	12 x 3 mL	390,00
<b>-NEW-</b> 26UQ02HL	Medidrug® CTU Confirm U +25%	12 x 3 mL	390,00
27UQ01HL	Medidrug® WDT Confirm U -25%	12 x 3 mL	399,00
27UQ02HL	Medidrug® WDT Confirm U +25%	12 x 3 mL	399,00
40201	Medidrug® Basis-line U (neg.)	9 x 5 mL	75,00

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

00HL00VA	Medidrug® Basis-line H-a (neg.)	1 x 100 mg	🕒
00HL00XA	Medidrug® Basis-line H-a (neg.)	1 x 300 mg	🕒
40151	Medidrug® Basis-line S (neg.)	10 x 2.5 mL	110,00
40161	Medidrug® Basis-line VB (neg.)	10 x 2.5 mL	130,00
40201	Medidrug® Basis-line U (neg.)	9 x 5 mL	75,00

€ Price in Euro excl. VAT / taxes and delivery charges. We adjust our delivery charges each quarter.

🕒 Product / price available upon request

🔄 Product cancelled

▶ Product available while stock lasts – 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.