

Opioid Substitution Drugs I – Serum / Whole Blood 2019-10 **1.14**

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® **OSD S / VB**


GC/MS, UPLC/MS(-MS)

Lyophilized reference material, based on serum or whole blood, for quality assurance of the determination of opioid substitution drugs. The indicated target values have been verified by independent accredited laboratories (EN ISO 17025).



The analyses were performed according to the guidelines of the German Medical Association for Quality Assurance (RiliBÄK) and the guidelines of the GTFCh (Society of Toxicological and Forensic Chemistry in Germany).

The controls are also available in a set, containing a blank serum / a blank whole blood (L0) for method validation or base line determination; all control levels and blank matrices in serum or whole blood share the same serum / whole blood matrix.

Medidrug®		Serum					Whole Blood			
Opioid Substitution Drugs		target values OSD S 8 analytes					target values OSD VB 8 analytes			
Analyte	Unit	L0	L1	L2	L3	L4	L0	L1	L2	L3
Buprenorphine	µg/L	< 0.2	1	5	10	20	< 0.1	1	20	50
Norbuprenorphine	µg/L	< 0.2	2.5	5	10	25	< 0.2	5	20	50
Methadone	µg/L	< 2,0	10	50	100	200	< 1.0	25	100	200
EDDP	µg/L	< 2.2	10	50	100	200	< 0.8	25	100	200
6-MAM	- New - µg/L	< 0.5	5	10	20	40	< 0.2	5	25	50
Morphine	- New - µg/L	< 1.3	10	50	100	200	< 0.2	10	50	200
Codeine	- New - µg/L	< 1.3	25	50	100	200	< 0.2	25	50	200
Dihydrocodeine	- New - µg/L	< 1.1	25	100	300	500	< 0.3	50	200	500
Order Information		REF	REF	REF	REF		REF	REF	REF	REF
5 vials x 2.0 mL		Level 0: Available only in set.	56SL01FC	56SL02FC	56SL03FC	56SL04FC	Level 0: Available only in set.	56VL01FC	56VL02FC	56VL03FC
10 vials x 2.0 mL			56SL01FF	56SL02FF	56SL03FF	56SL04FF		56VL01FF	56VL02FF	56VL03FF
Set: 10 vials x 2.0 ml			56SS01FF							
Set: 8 vials x 2.0 ml								56VS01FJ		
Lyophilisate										



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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Opioid Substitution Drugs II – Urine 2018-07 **1.15**






For quality monitoring of quantitative measurements by various 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® **OSD U** GC/MS(-MS), (UP)LC-MS(-MS)
 Lyophilized urine-based reference material for quality assurance of the determination of opioid substitution drugs.
 The indicated target values have been verified by independent accredited laboratories (EN ISO 17025); the analyses were performed according to the guidelines of the German Medical Association of Quality Assurance (RilIBÄK) and the guidelines of the GTFCh (Society of Toxicological and Forensic Chemistry in Germany).
 This new reference material is available in different package sizes.

Medidrug® **Basis-line U**
 Lyophilized reference material for base line determination in different applications or as negative control.
 (All components in chapter 1.13 Blank Matrices).

Medidrug®		Urin				
Opioid Substitution Drugs		target values OSD U 8 analytes				target values Basis-line U 71 analytes (excerpt)
Analyte	Unit	L1	L2	L3	L4	Negative
Buprenorphine	µg/L	5	20	50	300	< LOD
Norbuprenorphine	µg/L	5	50	100	300	< LOD
Methadone	µg/L	45	90	200	500	< LOD
EDDP	µg/L	45	90	200	500	< LOD
6-MAM	- New - µg/L	5	10	25	100	< LOD
Morphine	- New - µg/L	10	25	100	500	< LOD
Codeine	- New - µg/L	10	25	100	500	< LOD
Dihydrocodeine	- New - µg/L	25	50	100	500	< LOD
Order Information		REF	REF	REF	REF	REF
5 vials x 2,0 mL		56UL01FC	56UL02FC	56UL03FC	56UL04FC	
10 vials x 2,0 mL		56UL01FF	56UL02FF	56UL03FF	56UL04FF	
Set: 8 vials x 2,0 mL		56US01FJ				
9 vials x 5 mL						40201
Lyophilisate						

 	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.	Contact us:  + 49 (0)7157 / 5304 - 100  + 49 (0)7157 / 5304 - 11  info@medichem.de
	All products conform to IVD Directive 98/79/EC Certified quality management according to DIN EN ISO 9001:2015 DIN EN ISO 13485:2016	

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 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
Blank Matrices	Basis-line H-a	Basis-line S	Basis-line U	Basis-line VB
Analyte Groups	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
Order Information	REF Vial à 100 mg: 00HL00VA Vial à 300 mg: 00HL00XA 1-mm-cut	REF 40151 10 vials for 2,5 mL Lyophilisate	REF 40201 9 vials for 5 mL Lyophilisate	REF 40161 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	€
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				
1.14 Opioid Substitution Drugs I – Serum and Whole Blood							
56SL01FC	Medidrug® OSD S L1	5 x 2 mL	145,00				
56SL01FF	Medidrug® OSD S L1	10 x 2 mL	265,00				
56SL02FC	Medidrug® OSD S L2	5 x 2 mL	145,00				
56SL02FF	Medidrug® OSD S L2	10 x 2 mL	265,00				
56SL03FC	Medidrug® OSD S L3	5 x 2 mL	145,00				
56SL03FF	Medidrug® OSD S L3	10 x 2 mL	265,00				
56SL04FC	Medidrug® OSD S L4	5 x 2 mL	145,00				
56SL04FF	Medidrug® OSD S L4	10 x 2 mL	265,00				
56SS01FF	Medidrug® OSD S Set L0 – L4	5 x 2 x 2 mL	385,00				
56VL01FC	Medidrug® OSD VB L1	5 x 2 mL	160,00				
56VL01FF	Medidrug® OSD VB L1	10 x 2 mL	295,00				
56VL02FC	Medidrug® OSD VB L2	5 x 2 mL	160,00				
56VL02FF	Medidrug® OSD VB L2	10 x 2 mL	295,00				
56VL03FC	Medidrug® OSD VB L3	5 x 2 mL	160,00				
56VL03FF	Medidrug® OSD VB L3	10 x 2 mL	295,00				
56VS01FJ	Medidrug® OSD VB Set L0 – L3	4 x 2 x 2 mL	345,00				
1.15 Opioid Substitution Drugs II – Urine							
56UL01FC	Medidrug® OSD U L1	5 x 2 mL	123,00				
56UL01FF	Medidrug® OSD U L1	10 x 2 mL	222,00				
56UL02FC	Medidrug® OSD U L2	5 x 2 mL	123,00				
56UL02FF	Medidrug® OSD U L2	10 x 2 mL	222,00				
56UL03FC	Medidrug® OSD U L3	5 x 2 mL	123,00				
56UL03FF	Medidrug® OSD U L3	10 x 2 mL	222,00				
56UL04FC	Medidrug® OSD U L4	5 x 2 mL	123,00				
56UL04FF	Medidrug® OSD U L4	10 x 2 mL	222,00				
56US01FJ	Medidrug® OSD U Set L1 – L4	4 x 2 x 2 mL	204,00				
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.