

**Barbiturates / Toxicol. Analysis for Brain Death Diagnostics – Serum 2020-10 1.8**

**For quality monitoring of quantitative measurements**

Medidrug® **Thiopental S**

GC, HPLC

Lyophilized serum-based reference material for accuracy monitoring of thiopental determination. The indicated target values are verified by independent accredited laboratories.

These reference materials are produced exclusively 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® **TABD S**

**- New -**

Lyophilized serum-based reference material for accuracy monitoring of toxicological analysis for brain death diagnostics. The indicated target values are verified by independent accredited laboratories.

Medidrug®		Serum		
<b>Barbiturates</b>		target value		
		<b>Thiopental S</b>		
		1 analyte		
Analyte	Unit	Level 1	Level 2	Level 3
Thiopental	mg/L	5	20	40
<b>Order information</b>		<b>REF</b>	<b>REF</b>	<b>REF</b>
2 x 2.5 mL		<b>29SL01GB</b>	<b>29SL02GB</b>	<b>29SL03GB</b>
Set: 3 x 1 x 2.5 mL			<b>29SS01GH</b>	
Lyophilisate				

Medidrug®		Serum		
<b>Toxicological Analysis for Brain Death Diagnostics</b>		target values		
		<b>TABD S</b>		
		11 analytes		
Analyte	Unit			
Diazepam	µg/L	100,0		
Desmethyldiazepam	µg/L	200,0		
Etomidat	mg/L	0,1		
Fentanyl	µg/L	1,0		
Methohexital	mg/L	0,5		
Midazolam	µg/L	50,0		
Phenobarbital	mg/L	10,0		
Pentobarbital	mg/L	1,0		
Propofol	mg/L	1,0		
Sufentanil	µg/L	0,5		
Thiopental	mg/L	1,0		
<b>Order information</b>		<b>REF</b>		
3 x 2,5 ml (Lyophilisate)		<b>20SL01GH</b>		
		<b>- New -</b>		

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

**Benzodiazepines – Serum / Urine** **2020-07** **1.9**

**For quality monitoring of quantitative measurements**

Medidrug® **Benzodiazepines S / U**


These reference materials are produced exclusively 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.

Lyophilized controls for accuracy monitoring of benzodiazepines determination in serum or urine. The indicated target values have been verified by independent accredited laboratories.



Medidrug® **Basis-line S / U**

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

Medidrug®			Serum				Urine		
Benzodiazepines			target values <b>Benzodiazepine S</b> 27 analytes			target values <b>Basis-line S</b> 91 analytes (excerpt)	target values <b>Benzodiazepine U</b> 24 analytes		target values <b>Basis-line U</b> 71 analytes (excerpt)
Group	Analyte	Unit	L1	L2	L3	Negativ	L1	L2	Negativ
Benzo-diazepines	7-Aminoclonazepam <b>- New -</b>	µg/L	10	50	100	< LOD	-	-	< LOD
	Alprazolam	µg/L	2	10	60	< LOD	50	300	< LOD
	α-Hydroxyalprazolam	µg/L	5	20	100	< LOD	50	300	< LOD
	Bromazepam	µg/L	10	100	300	< LOD	50	300	< LOD
	3-Hydroxybromazepam	µg/L	10	50	200	< LOD	50	300	< LOD
	Clonazepam	µg/L	5	20	100	< LOD	50	300	< LOD
	Diazepam	µg/L	50	100	600	< LOD	50	300	< LOD
	N-Desmethyldiazepam	µg/L	50	100	600	< LOD	50	300	< LOD
	Flunitrazepam	µg/L	5	20	50	< LOD	50	300	< LOD
	7-Aminoflunitrazepam	µg/L	2	10	60	< LOD	50	300	< LOD
	N-Desmethyflunitrazepam	µg/L	5	20	50	< LOD	50	300	< LOD
	Flurazepam	µg/L	5	20	50	< LOD	50	300	< LOD
	N-Desalkylflurazepam	µg/L	10	50	100	< LOD -	50	300	< LOD
	Lorazepam	µg/L	10	50	200	< LOD	50	300	< LOD
	Lormetazepam	µg/L	2	10	60	< LOD	50	300	< LOD
	Midazolam	µg/L	10	50	200	< LOD	50	300	< LOD
	Nitrazepam	µg/L	10	50	200	< LOD	50	300	< LOD
	Oxazepam	µg/L	50	100	600	< LOD	50	300	< LOD
	Phenazepam	µg/L	10	50	200	< LOD	50	300	< LOD
	Temazepam	µg/L	50	100	600	< LOD	50	300	< LOD
Tetrazepam	µg/L	50	100	600	< LOD	50	300	< LOD	
Triazolam <b>- New -</b>	µg/L	5	20	100	< LOD	-	-	< LOD	
Thienodiazepines	Etizolam <b>- New -</b>	µg/L	10	50	200	< LOD	-	-	-
Z-Drugs	2-Amino-5-chloropyridine (ACP)	µg/L	10	50	100	< LOD	50	300	-
	Zaleplon	µg/L	5	20	100	< LOD	17	100	< LOD
	Zolpidem	µg/L	10	50	200	< LOD	50	300	< LOD
	Zopiclone	µg/L	5	20	100	< LOD	50	300	< 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>
10 x 2,5 mL (vial)			<b>23SL01GF</b>	<b>23SL02GF</b>	<b>23SL03GF</b>	<b>40151</b>	<b>23UL01GF</b>	<b>23UL02GF</b>	
Set: 3 x 3 x 2,5 mL (vial)			<b>23SS01KF</b>						
9 x 5,0 mL (vial)									<b>40201</b>
Lyophilisate									



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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>1.8 Barbiturates / Tox. Analysis for Brain Death Diagnostics – Serum</b>							
29SL01GB	Medidrug® Thiopental S L1	2 x 2.5 mL	123,00				
29SL02GB	Medidrug® Thiopental S L2	2 x 2.5 mL	123,00				
29SL03GB	Medidrug® Thiopental S L3	2 x 2.5 mL	123,00				
29SS01GH	Medidrug® Thiopental S Set L1-L3	3x 1x 2.5 mL	165,00				
<b>-NEW</b>	20SL01GH	Medidrug® TABD S L1	3 x 2.5 mL				209,00
<b>1.9 Benzodiazepines – Serum and Urine</b>							
23SL01GF	Medidrug® Benzodiazepine S L1	10 x 2.5 mL	145,00				
23SL02GF	Medidrug® Benzodiazepine S L2	10 x 2.5 mL	145,00				
23SL03GF	Medidrug® Benzodiazepine S L3	10 x 2.5 mL	145,00				
23SS01KF	Medidrug® Benzodiazepine S L1-3	3x 3x 2.5 mL	199,00				
23UL01GF	Medidrug® Benzodiazepine U L1	10 x 2.5 mL	135,00				
23UL02GF	Medidrug® Benzodiazepine U L2	10 x 2.5 mL	135,00				
40151	Medidrug® Basis-line S (neg.)	10 x 2.5 mL	110,00				
40201	Medidrug® Basis-line U (neg.)	9 x 5 mL	75,00				
<b>1.13 Blank Matrices – Hair, Serum, Urine and Whole Blood</b>							
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.