

**Alcohol I – Alcohol Congener – Serum**

2022-05

1.1 / 1.2

**For quality monitoring of quantitative measurements by chromatographic methods****Medidrug® BGS-I S L0 Leerserum**

This blank serum matrix can also be used to manufacture a serum based reference material with suitable concentration ranges by diluting the solution **91381 Medidrug BGS W High** (10 times higher than level W-cal 7) into it. Please see next page.

**Medidrug® BGS-II S**

Ready-to-use liquid serum-based reference materials, likewise to use for calibration or as accuracy monitoring of congener alcohol determination. The indicated target values are established 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® BGS W-cal**

Ready-to-use solution in 7 levels for calibration.

**Medidrug® BGS W High**

Concentrated solution (10 times higher than level W-cal 7) to manufacture serum based reference materials: By diluting in **91101 Medidrug BGS S L0** to obtain suitable concentration ranges.

Liquid aqueous reference materials for calibration of congener alcohol determination. The indicated target values have been verified by independent accredited laboratories.

Medidrug®		Serum		Water							
Congener Alcohols		BGS-I S	BGS-II S	BGS W-cal							BGS W
		11 analytes	11 analytes	11 analytes							11 analytes
Analyte	Unit	L0	L2	cal 1	cal 2	cal 3	cal 4	cal 5	cal 6	cal 7	High
Acetone	mg/L	< LOD	2,25	0,5	1,0	1,5	2,0	2,5	5,0	10	100
Methanol	mg/L	< LOD	4,50	1,0	2,0	3,0	4,0	5,0	10	20	200
1-Butanol	mg/L	< LOD	0,45	0,1	0,2	0,3	0,4	0,5	1,0	2,0	20
2-Butanol	mg/L	< LOD	0,45	0,1	0,2	0,3	0,4	0,5	1,0	2,0	20
2-Butanon	mg/L	< LOD	0,45	0,1	0,2	0,3	0,4	0,5	1,0	2,0	20
Isobutanol	mg/L	< LOD	0,45	0,1	0,2	0,3	0,4	0,5	1,0	2,0	20
2-Methyl-1-butanol	mg/L	< LOD	0,45	0,1	0,2	0,3	0,4	0,5	1,0	2,0	20
3-Methyl-1-butanol	mg/L	< LOD	0,45	0,1	0,2	0,3	0,4	0,5	1,0	2,0	20
Methyl-1-butanol, total	mg/L	< LOD	0,9	0,2	0,4	0,6	0,8	1,0	2,0	4,0	40
1-Propanol	mg/L	< LOD	0,45	0,1	0,2	0,3	0,4	0,5	1,0	2,0	20
2-Propanol	mg/L	< LOD	0,45	0,1	0,2	0,3	0,4	0,5	1,0	2,0	20
Ethanol	g/L	< LOD	1,2	1,5	1,5	1,5	1,5	1,2	1,5	1,2	12
<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>	<b>REF</b>	<b>REF</b>
10 x 1,2 mL Ampoules		<b>91101</b>	<b>91221</b>	<b>91311</b>	<b>91321</b>	<b>91331</b>	<b>91341</b>	<b>91351</b>	<b>91361</b>	<b>91371</b>	<b>91381</b>



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.



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**Alcohol III – Ethanol – Serum** 2022-05 **1.3**

**For quality monitoring of quantitative measurements by enzymatic method (ADH) and gas chromatography (GC)**

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® **Ethanol S**

Ready-to-use liquid serum-based reference materials for calibration or accuracy monitoring of ethanol determination. The indicated target values are established by independent accredited laboratories.

Medidrug® **Ethanol S-X**

Ready-to-use liquid controls for precision monitoring of ethanol determinations in serum.

Medidrug®		Serum												
<b>Ethanol</b>		target value												
		<b>Ethanol S</b>												
		1 analyte												
Analyte	Unit	010	020	030	050	080	100	110	130	150	200	300	400	500
Ethanol	g/L	0.1	0.2	0.3	0.5	0.8	1.0	1.1	1.3	1.5	2.0	3.0	4.0	5.0
<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>	<b>REF</b>	<b>REF</b>	<b>REF</b>	<b>REF</b>
10 x 0.6 mL (amp.)		-	<b>11021</b>	<b>11031</b>	<b>11051</b>	<b>11081</b>	<b>11101</b>	<b>11111</b>	<b>11131</b>	<b>11151</b>	<b>11201</b>	<b>11301</b>	<b>11401</b>	<b>11501</b>
10 x 1.2 mL (amp.)		<b>11010</b>	<b>11020</b>	<b>11030</b>	<b>11050</b>	<b>11080</b>	<b>11100</b>	<b>11110</b>	<b>11130</b>	<b>11150</b>	<b>11200</b>	<b>11300</b>	<b>11400</b>	<b>11500</b>
10 x 1.5 mL (vials)		<b>11012</b>	<b>11022</b>	<b>11032</b>	<b>11052</b>	<b>11082</b>	<b>11102</b>	<b>11112</b>	<b>11132</b>	<b>11152</b>	<b>11202</b>	<b>11302</b>	<b>11402</b>	<b>11502</b>
10 x 3 mL (vials)		<b>11013</b>	<b>11023</b>	<b>11033</b>	<b>11053</b>	<b>11083</b>	<b>11103</b>	<b>11113</b>	<b>11133</b>	<b>11153</b>	<b>11203</b>	<b>11303</b>	<b>11403</b>	<b>11503</b>

Please note:

To facilitate the removal of the ampoule, the filling volume of our product line **Medidrug® Ethanol** has been increased from 1.1 mL to **1.2 mL**.

Until all packages with 1.1 mL ampoules have been sold off, both filling volumes (1.1 mL and 1.2 mL) can be part of the consignment.

Medidrug®		Serum		
<b>Ethanol</b>		without target value		
		<b>Ethanol S-X</b>		
		1 analyte		
Analyte	Unit	X 1	X 2	X 3
Ethanol	g/L	0.5 – 0.6	0.8 – 1.0	2.0 – 3.0
<b>Order information</b>		<b>REF</b>	<b>REF</b>	<b>REF</b>
10 x 1.5 mL (vials)		<b>12012</b>	<b>12022</b>	<b>12032</b>
10 x 3 mL (vials)		<b>12013</b>	<b>12023</b>	<b>12033</b>

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**Alcohol IV – Ethanol & Methanol / Ethanol & Alcohols – Whole Blood** 2021-07 **1.4**

**For quality monitoring of quantitative measurements gas chromatography (GC)**

The reference materials for measurements in whole blood 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® **ALC VB**

Ready-to-use liquid whole blood-based reference materials for calibration or accuracy monitoring of ethanol and methanol determination. Declared target values are established by independent accredited laboratories.

New: Medidrug® **ALC VB (Ethanol & Alcohols)**

By degrees, we have expanded the number of analytes by adding **2-Propanol & Acetone** to our whole blood control.

Medidrug®		▶ Ethanol + Methanol in Whole Blood									
<b>Alcohol</b>		target values									
		<b>ALC VB</b>									
		2 analytes									
Analyte	Unit	000	030	050	080	100	110	150	200	300	400
Ethanol	g/L	0,00	0,30	0,50	0,80	1,00	1,10	1,50	2,00	3,00	4,00
Methanol	mg/L	0	50	100	200	250	300	400	500	750	1000
<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>	<b>REF</b>	<b>REF</b>
10 x 0,6 mL (amp.)		<b>Sold</b>	-	<b>Sold</b>	<b>Sold</b>	<b>Sold</b>	<b>Sold</b>	-	<b>Sold</b>	<b>Sold</b>	<b>Sold</b>
10 x 1,2 mL (amp.)		<b>Sold</b>	<b>Sold</b>	<b>Sold</b>	<b>Sold</b>	<b>Sold</b>	<b>Sold</b>	11V150DF	<b>Sold</b>	<b>Sold</b>	<b>Sold</b>
10 x 1,5 mL (vials)		<b>Sold</b>	<b>Sold</b>	<b>Sold</b>	<b>Sold</b>	<b>Sold</b>	<b>Sold</b>	11V150EF	<b>Sold</b>	<b>Sold</b>	<b>Sold</b>
10 x 3 mL (vials)		<b>Sold</b>	-	<b>Sold</b>	<b>Sold</b>	<b>Sold</b>	<b>Sold</b>	-	<b>Sold</b>	<b>Sold</b>	<b>Sold</b>
<b>Now available as new control. Please see below:</b>		↓	↓	↓	↓	↓	↓	↓	↓	↓	↓

NEW:

By degrees, we are going to expand the number of analytes by adding **2-Propanol & Acetone** to our whole blood control **Medidrug® ALC VB**. Please kindly inform us, if you wish the previous (if available) or the new version. Otherwise, the available control is dispatched.

Medidrug®		▶ Ethanol + Alcohols in Whole Blood									
<b>Alcohol</b>		target values									
		<b>ALC VB</b>									
		4 analytes									
Analyte	Unit	000	030	050	080	100	110	150	200	300	400
2-Propanol <b>- New -</b>	mg/L	0	10	25	50	75	100	200	300	500	1000
Acetone <b>- New -</b>	mg/L	0	10	25	50	75	100	200	300	500	1000
Ethanol	g/L	0	0,30	0,50	0,80	1,00	1,10	1,50	2,00	3,00	4,00
Methanol	mg/L	0	50	100	200	250	300	400	500	750	1000
<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>	<b>REF</b>	<b>REF</b>
10 x 0,6 mL (amp.)		11V000BF	-	11V050BF	11V080BF	-	11V110BF	-	11V200BF	11V300BF	11V400BF
10 x 1,2 mL (amp.)		11V000DF	11V030DF	11V050DF	11V080DF	11V100DF	11V110DF	11V150DF	11V200DF	11V300DF	11V400DF
10 x 1,5 mL (vials)		11V000EF	11V030EF	11V050EF	11V080EF	11V100EF	11V110EF	11V150EF	11V200EF	11V300EF	11V400EF
10 x 3 mL (vials)		11V000HF	-	11V050HF	11V080HF	11V100HF	11V110HF	-	11V200HF	11V300HF	11V400HF
		<b>-Available-</b>									



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**Alcohol V – Ethanol – Water** 2021-07 **1.5**

**For quality monitoring of quantitative measurements by enzymatic method (ADH) and gas chromatography (GC)**






Medidrug® **Ethanol W**  
 Ready-to-use liquid aqueous standards for calibration of ethanol determination. The indicated target values have been verified by independent accredited laboratories.

Medidrug®		Water												
<b>Ethanol</b>		target values												
		<b>Ethanol W</b>												
		1 analyte												
Analyte	Unit	010	020	030	050	080	100	110	130	150	200	300	400	500
Ethanol	g/L	0.1	0.2	0.3	0.5	0.8	1.0	1.1	1.3	1.5	2.0	3.0	4.0	5.0
<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>	<b>REF</b>	<b>REF</b>	<b>REF</b>	<b>REF</b>	<b>REF</b>
10 x 1.2 mL (amp.)		<b>20010</b>	<b>20020</b>	<b>20030</b>	<b>20050</b>	<b>20080</b>	<b>20100</b>	<b>20110</b>	<b>20130</b>	<b>20150</b>	<b>20200</b>	<b>20300</b>	<b>20400</b>	<b>20500</b>
100 x 1.2 mL (amp.)		<b>20011</b>	<b>20021</b>	<b>20031</b>	<b>20051</b>	<b>20081</b>	<b>20101</b>	<b>20111</b>	<b>20131</b>	<b>20151</b>	<b>20201</b>	<b>20301</b>	<b>20401</b>	<b>20501</b>
<b>New:</b>														
<b>10 x 1,5 mL (vials)</b>		<b>20012</b>	<b>20022</b>	<b>20032</b>	<b>20052</b>	<b>20082</b>	<b>20102</b>	<b>20112</b>	<b>20132</b>	<b>20152</b>	<b>20202</b>	<b>20302</b>	<b>20402</b>	<b>20502</b>
10 x 3.0 mL (vials)		<b>20013</b>	<b>20023</b>	<b>20033</b>	<b>20053</b>	<b>20083</b>	<b>20103</b>	<b>20113</b>	<b>20133</b>	<b>20153</b>	<b>20203</b>	<b>20303</b>	<b>20403</b>	<b>20503</b>

**New packages including 10 vials with 1,5 mL**

**New price (for 10 vials with 3,0 mL) → see back / price list**

The controls Medidrug Ethanol W 130 and Medidrug Ethanol W 150 (order information **20130 / 20150 / 20131 / 20151**) contain ampoules with **1,1 mL**.

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## Alcohol VI – Biomarkers – Pure substance

2020-01

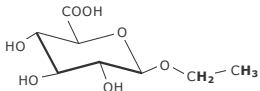
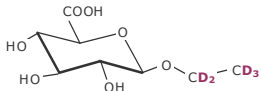
1.6

## For quality monitoring of quantitative measurements by chromatographic methods

The reference materials for measurements in serum or urine 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® **Ethylglucuronid**  
Medidrug® **Ethylglucuronid-D<sub>5</sub>**

Pure substances to be used for calibration or as isotope-labeled internal standard for determinations of ethyl glucuronide.

Medidrug®	Pure substance	
<b>Ethyl glucuronide</b>	<p><b>Ethyl glucuronide</b></p>  <p><math>C_8H_{14}O_7</math></p>	<p><b>Ethyl glucuronide-D<sub>5</sub></b></p>  <p><math>C_8H_9D_5O_7</math></p>
<b>Chemical name</b> MW:	227 g/mol	227 g/mol
Ethyl-β-D-glucopyranosiduronic acid	Purity: ≥ 99 %	---
Ethyl-β-D-glucopyranosiduronic acid-D <sub>5</sub>	---	Purity: ≥ 99 %
<b>Order Information</b>	<b>REF</b>	<b>REF</b>
1 x 2 mg (powder)	<b>70002</b>	<b>70502</b>
1 x 10 mg (powder)	<b>70010</b>	<b>70510</b>






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## Alcohol VI – Biomarkers – Serum / Urine

2022-05

1.6

## For quality monitoring of quantitative measurements by chromatographic methods

Medidrug® **ALCM S / U**

The reference materials for measurements in serum or urine 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.

Lyophilized reference material based on serum or urine for quality control of ethyl glucuronide and ethyl sulfate determination. The indicated target values are established by independent accredited laboratories.

Medidrug®		Serum		
<b>Alcohol Consumption Markers</b>		target values		
		<b>ALCM S</b>		
		2 analytes		
Analyte	Unit	L1	L2	L3
Ethyl glucuronide	mg/L	0.10	1.00	5.00
Ethyl sulfate	mg/L	0.035	0.35	1.70
<b>Order information</b>		<b>REF</b>	<b>REF</b>	<b>REF</b>
5 x 2.5 mL (vials)		<b>15SL01GC</b>	<b>15SL02GC</b>	<b>15SL03GC</b>
10 x 2.5 mL (vials)		<b>15SL01GF</b>	<b>15SL02GF</b>	<b>15SL03GF</b>
Set (3 x 2 x 2.5 mL)			<b>15SS01GD</b>	
Lyophilisate				

Medidrug®		Urine			
<b>Alcohol Consumption Markers</b>		target values			
		<b>ALCM U</b>			
		2 analytes			
Analyte	Unit	L1	L2	L3	L4
Ethyl glucuronide	mg/L	0,10	0,50	1,0	5,0
Ethyl sulfate	mg/L	0,035	0,175	0,35	1,70
<b>Order information</b>		<b>REF</b>	<b>REF</b>	<b>REF</b>	<b>REF</b>
5 x 2,5 mL (vials)		<b>15UL01GC</b>	<b>15UL02GC</b>	<b>15UL03GC</b>	<b>15UL04GC</b>
10 x 2,5 mL (vials)		<b>15UL01GF</b>	<b>15UL02GF</b>	<b>15UL03GF</b>	<b>15UL04GF</b>
Set (4 x 2 x 2,5 mL)			<b>15US01GJ</b>		
Lyophilisate					






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**Alcohol VII - Consumption Markers – Hair** 2021-08 **1.7**

**Reference materials from cut hair for quality assurance of quantitative analyses**

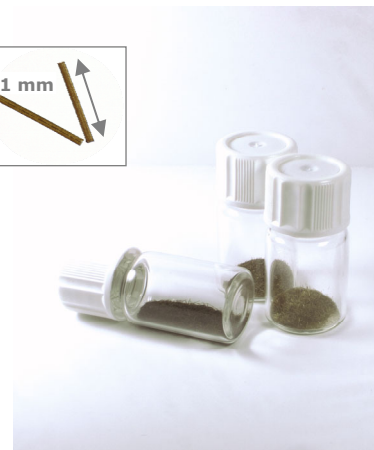
The unique quality of these matrix reference materials is setting a new standard for hair analyses. The manufacturing principle is based upon a special procedure for reliable and non-destructive homogenization of hair fibres : Without milling and thus without the loss of their structural integrity. A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



**Medidrug® ALCM H-a (authentic)**

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

Authentic cut reference material for determination of alcohol consumption markers in hair, manufactured from hair of European alcoholic beverage consumers. It is appropriate for method development and validation as well as for internal quality control. Compared to milled or spiked hair samples these reference material can be washed too. This assures a comprehensive quality control for the entire analytical process. The yield of ethyl glucuronide extracts from these reference material is to be monitored (please see following information). The target values have been established within the bounds of the proficiency tests by the Society of Hair Testing SoHT in cooperation with the Federal Institute for Materials Research and Testing (BAM) and MEDICHEM. The samples' homogeneity has been controlled under repeatability conditions.



**Important information:**

At present most extraction methods tend to an insufficient yield of ethyl glucuronide. This observation from the proficiency testing 2012 by the SoHT gave reason to re-test several sample lots from 2011 & 2012 within the bounds of the succeeding proficiency testing in 2013. This time however the participating laboratories received not only cut but also milled samples for the interlaboratory test. This re-test confirmed: A majority of laboratories reported a significantly higher ethyl glucuronide yield extracted from milled hair compared to the extraction from cut hair samples – partly in a sizeable amount! A new value assignment has been carried out for these sample lots, solely based upon extracts of milled hair samples (see below). This reflects the updated comment by the SoHT regarding the quantification of EtG in hair for alcohol abuse confirmation (please see SoHT-meeting in Bordeaux 2014).






**Medidrug® Basis-line H**

Authentic reference material, made from hair of European donors. For base-line determination in different applications or as negative control for ethyl glucuronide and 62 more components<sup>1)</sup>.

Medidrug®		Hair – authentic						
Alcohol consumption markers		ALCM series H-a						Basis-line H-a
		5 analytes						63 analytes <sup>1)</sup>
Analyte	Unit	1/11-B Re-Test:13-F	1/11-C Re-Test:13-G	12-A Re-Test:13-H	12-B Re-Test:13-I	14-A PT: 2014	14-B PT: 2014	NEG
Ethyl glucuronide	Pg/mg	21,6 <sup>2)</sup> 27,0 <sup>3)</sup>	12,4 <sup>2)</sup> 22,9 <sup>3)</sup>	38,7 <sup>2)</sup> 50,6 <sup>3)</sup>	68,6 <sup>2)</sup> 82,5 <sup>3)</sup>	8,5 <sup>4)</sup>	28,8 <sup>4)</sup>	< LOD
Ethyl myristate	Pg/mg	250 <sup>6)</sup>	69 <sup>6)</sup>	394 <sup>5)</sup>	54 <sup>5)</sup>	25 <sup>7)</sup>	363 <sup>7)</sup>	-
Ethyl oleate	Pg/mg	1348 <sup>6)</sup>	867 <sup>6)</sup>	1718 <sup>5)</sup>	233 <sup>5)</sup>	171 <sup>7)</sup>	1046 <sup>7)</sup>	
Ethyl palmitate <sup>8)</sup>	Pg/mg	483 <sup>6)</sup>	274 <sup>6)</sup>	875 <sup>5)</sup>	181 <sup>5)</sup>	108 <sup>7)</sup>	571 <sup>7)</sup>	
Ethyl stearate	Pg/mg	74 <sup>6)</sup>	132 <sup>6)</sup>	231 <sup>5)</sup>	30 <sup>5)</sup>	54 <sup>7)</sup>	100 <sup>7)</sup>	
Fatty acid ethyl esters, total	Pg/mg	2155 <sup>6)</sup>	1342 <sup>6)</sup>	3218 <sup>5)</sup>	498 <sup>5)</sup>	358 <sup>7)</sup>	2080 <sup>7)</sup>	
<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>
1 x 100 mg (vial)		<b>15HR01VA</b>	<b>15HR02VA</b>	<b>15HR03VA</b>	<b>15HR04VA</b>	<b>15HR10VA</b>	<b>15HR11VA</b>	<b>00HL00VA</b>
1 x 300 mg (vial)		<b>15HR01XA</b>	<b>15HR02XA</b>	<b>15HR03XA</b>	<b>15HR04XA</b>	<b>15HR10XA</b>	<b>15HR11XA</b>	<b>00HL00XA</b>
		<b>LOT</b>	<b>LOT</b>	<b>LOT</b>	<b>LOT</b>	<b>LOT</b>	<b>LOT</b>	
						<b>- New -</b>	<b>- New -</b>	

- 1) Amphetamines, benzodiazepines, cannabinoids, cocaine, opioid substitution drugs, opiates
- 2) Previous target values (proficiency tests 2011 resp. 2012), measurements predominantly based upon extractions without previous milling
- 3) New determined target values (proficiency test 2013); solely based on extraction of previous milled hair samples
- 4) Proficiency Test 2014: The determinations are solely based on extraction of previous milled hair samples
- 5) We have not specified any target values: The indicated values (without washing, PT 2012) are meant to be a guideline. For details: see CoA.
- 6) New guide values (without washing) after re-test within bounds of proficiency test in 2013
- 7) We have not specified any target values: The indicated values (without washing, PT 2014) are meant to be a guideline. For details: see CoA.
- 8) Recommended analyte according to the Consensus of the SoHT, 2019

**LOT** The catalogue code (REF) of products marked with this symbol defines a singular lot (batch) which has been produced especially for an external quality control (proficiency testing). 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. If the material has been approved by the direction of proficiency testing according to the organizing association or reference institution and thus get an internal quality control we proceed in this manner.

 	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.	<b>Contact us:</b>  + 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	

**Alcohol VII – Consumption Markers – Hair** **2022-05** **1.7**

Medidrug® **EtG** H-d (spiked)

LC-MS(-MS)

Gravimetrically spiked cut reference material for determination of ethyl glucuronide in hair, prepared from hair of European hair donors. The reference material is suitable for internal quality control of the determination of ethyl glucuronide in hair. The gravimetric spiking has been verified by the BAM Federal Institute for Materials Research and Testing performing multiple determinations.

Medidrug®		Hair – spiked										
<b>Ethyl Glucuronide</b>		<b>EtG H-d</b>										
		1 analyte										
Analyte	Unit	000	004	005	007	020	025	030	040	50	100	200
Ethyl Glucuronide	pg/mg	< LOD	4	5	7	20	25	30	40	50	100	200
<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>	<b>REF</b>	<b>REF</b>	<b>REF</b>
1 x 100 mg (vial)		<b>15HL00VA</b>	<b>15HL02VA</b>	<b>15HL03VA</b>	<b>15HL04VA</b>	<b>15HL06VA</b>	<b>15HL07VA</b>	<b>15HL08VA</b>	<b>15HL09VA</b>	<b>15HL10VA</b>	<b>15HL11VA</b>	<b>15HL12VA</b>
10 x 100 mg (vial)		<b>15HL00VF</b>	<b>15HL02VF</b>	<b>15HL03VF</b>	<b>15HL04VF</b>	<b>15HL06VF</b>	<b>15HL07VF</b>	<b>15HL08VF</b>	<b>15HL09VF</b>	<b>15HL10VF</b>	<b>15HL11VF</b>	<b>15HL12VF</b>
				<b>New level</b>	↓	↓	↓	↓	↓	↓	↓	↓
					New item number	New item number	New item number	New item number	New item number	New item number	New item number	New item number



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 📧 info@medichem.de



**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
<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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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>1.1 Alcohol I – Alcohol Congener – Serum</b>							
91101	Medidrug® BGS-I S L0	10 x 1.2 ml	135,00	11132	Medidrug® Ethanol S 130	1,3 g/L 10 x 1.5 mL	90,00
91111 - 91171	Medidrug® BGS-I S L1 - L7	10 x 1.2 mL	↻	11133	Medidrug® Ethanol S 130	1,3 g/L 10 x 3 mL	163,00
91211	Medidrug® BGS-II S L1	10 x 1.2 mL	↻	11151	Medidrug® Ethanol S 150	1,5 g/L 10 x 0.6 mL	39,50
91221	Medidrug® BGS-II S L2	10 x 1.2 mL	135,00	11150	Medidrug® Ethanol S 150	1,5 g/L 10 x 1.2 mL	65,00
⇒ We offer an alternative for the sold serum level: <b>91101 BGS-I S L0</b> and <b>91381 BGS W High</b> . You will find more details on our product information - <b>Alcohol Consumption Marker</b> -							
<b>1.2 Alcohol II – Alcohol Congener - Water</b>							
91311	Medidrug® BGS W-cal cal 1	10 x 1.2 mL	125,00	11152	Medidrug® Ethanol S 150	1,5 g/L 10 x 1.5 mL	90,00
91321	Medidrug® BGS W-cal cal 2	10 x 1.2 mL	125,00	11153	Medidrug® Ethanol S 150	1,5 g/L 10 x 3 mL	163,00
91331	Medidrug® BGS W-cal cal 3	10 x 1.2 mL	125,00	11201	Medidrug® Ethanol S 200	2,0 g/L 10 x 0.6 mL	39,50
91341	Medidrug® BGS W-cal cal 4	10 x 1.2 mL	125,00	11200	Medidrug® Ethanol S 200	2,0 g/L 10 x 1.2 mL	65,00
91351	Medidrug® BGS W-cal cal 5	10 x 1.2 mL	125,00	11202	Medidrug® Ethanol S 200	2,0 g/L 10 x 1.5 mL	90,00
91361	Medidrug® BGS W-cal cal 6	10 x 1.2 mL	125,00	11203	Medidrug® Ethanol S 200	2,0 g/L 10 x 3 mL	163,00
91371	Medidrug® BGS W-cal cal 7	10 x 1.2 mL	125,00	11301	Medidrug® Ethanol S 300	3,0 g/L 10 x 0.6 mL	39,50
<b>NEW</b> 91381	Medidrug® BGS W High	10 x 1.2 mL	125,00	11300	Medidrug® Ethanol S 300	3,0 g/L 10 x 1.2 mL	65,00
<b>1.3 Alcohol III – Ethanol – Serum</b>							
11010	Medidrug® Ethanol S 010	0,1 g/L 10 x 1.1 mL	65,00	11302	Medidrug® Ethanol S 300	3,0 g/L 10 x 1.5 mL	90,00
11012	Medidrug® Ethanol S 010	0,1 g/L 10 x 1.5 mL	90,00	11303	Medidrug® Ethanol S 300	3,0 g/L 10 x 3 mL	163,00
11013	Medidrug® Ethanol S 010	0,1 g/L 10 x 3 mL	163,00	11401	Medidrug® Ethanol S 400	4,0 g/L 10 x 0.6 mL	39,50
11021	Medidrug® Ethanol S 020	0,2 g/L 10 x 0.6 mL	39,50	11400	Medidrug® Ethanol S 400	4,0 g/L 10 x 1.2 mL	65,00
11020	Medidrug® Ethanol S 020	0,2 g/L 10 x 1.2 mL	65,00	11402	Medidrug® Ethanol S 400	4,0 g/L 10 x 1.5 mL	90,00
11022	Medidrug® Ethanol S 020	0,2 g/L 10 x 1.5 mL	90,00	11403	Medidrug® Ethanol S 400	4,0 g/L 10 x 3 mL	163,00
11023	Medidrug® Ethanol S 020	0,2 g/L 10 x 3 mL	163,00	11501	Medidrug® Ethanol S 500	5,0 g/L 10 x 0.6 mL	39,50
11031	Medidrug® Ethanol S 030	0,3 g/L 10 x 0.6 mL	39,50	11500	Medidrug® Ethanol S 500	5,0 g/L 10 x 1.2 mL	65,00
11030	Medidrug® Ethanol S 030	0,3 g/L 10 x 1.2 mL	65,00	11502	Medidrug® Ethanol S 500	5,0 g/L 10 x 1.5 mL	90,00
11032	Medidrug® Ethanol S 030	0,3 g/L 10 x 1.5 mL	90,00	11503	Medidrug® Ethanol S 500	5,0 g/L 10 x 3 mL	163,00
11033	Medidrug® Ethanol S 030	0,3 g/L 10 x 3 mL	163,00	⇒ Medidrug Ethanol S 010 (article <b>11010</b> ) contains ampoules with <b>1,1 mL</b>			
11051	Medidrug® Ethanol S 050	0,5 g/L 10 x 0.6 mL	39,50	<b>Precision Controls:</b>			
11050	Medidrug® Ethanol S 050	0,5 g/L 10 x 1.2 mL	65,00	12012	Medidrug® Ethanol S-X X1	10 x 1.5 mL	69,00
11052	Medidrug® Ethanol S 050	0,5 g/L 10 x 1.5 mL	90,00	12013	Medidrug® Ethanol S-X X1	10 x 3 mL	127,00
11053	Medidrug® Ethanol S 050	0,5 g/L 10 x 3 mL	163,00	12022	Medidrug® Ethanol S-X X2	10 x 1.5 mL	69,00
11081	Medidrug® Ethanol S 080	0,8 g/L 10 x 0.6 mL	39,50	12023	Medidrug® Ethanol S-X X2	10 x 3 mL	127,00
11080	Medidrug® Ethanol S 080	0,8 g/L 10 x 1.2 mL	65,00	12032	Medidrug® Ethanol S-X X3	10 x 1.5 mL	69,00
11082	Medidrug® Ethanol S 080	0,8 g/L 10 x 1.5 mL	90,00	12033	Medidrug® Ethanol S-X X3	10 x 3 mL	127,00
11083	Medidrug® Ethanol S 080	0,8 g/L 10 x 3 mL	163,00	<b>1.4 Alcohol IV – Ethanol + Methanol - Whole Blood</b>			
11101	Medidrug® Ethanol S 100	1,0 g/L 10 x 0.6 mL	39,50	11V000BF	Medidrug® ALC VB 000	0,00 g/L 10 x 0.6 mL	47,85
11100	Medidrug® Ethanol S 100	1,0 g/L 10 x 1.2 mL	65,00	11V000DF	Medidrug® ALC VB 000	0,00 g/L 10 x 1.2 mL	79,20
11102	Medidrug® Ethanol S 100	1,0 g/L 10 x 1.5 mL	90,00	11V000EF	Medidrug® ALC VB 000	0,00 g/L 10 x 1.5 mL	118,80
11103	Medidrug® Ethanol S 100	1,0 g/L 10 x 3 mL	163,00	11V000HF	Medidrug® ALC VB 000	0,00 g/L 10 x 3 mL	207,90
11111	Medidrug® Ethanol S 110	1,1 g/L 10 x 0.6 mL	39,50	11V030DF	Medidrug® ALC VB 030	0,30 g/L 10 x 1,2 mL	79,20
11110	Medidrug® Ethanol S 110	1,1 g/L 10 x 1.2 mL	65,00	11V030EF	Medidrug® ALC VB 030	0,30 g/L 10 x 1,5 mL	118,80
11112	Medidrug® Ethanol S 110	1,1 g/L 10 x 1.5 mL	90,00	11V050BF	Medidrug® ALC VB 050	0,50 g/L 10 x 0.6 mL	47,85
11113	Medidrug® Ethanol S 110	1,1 g/L 10 x 3 mL	163,00	11V050DF	Medidrug® ALC VB 050	0,50 g/L 10 x 1.2 mL	79,20
11131	Medidrug® Ethanol S 130	1,3 g/L 10 x 0.6 mL	39,50	11V050EF	Medidrug® ALC VB 050	0,50 g/L 10 x 1.5 mL	118,80
11130	Medidrug® Ethanol S 130	1,3 g/L 10 x 1.2 mL	65,00	11V050HF	Medidrug® ALC VB 050	0,50 g/L 10 x 3 mL	207,90
				11V080BF	Medidrug® ALC VB 080	0,80 g/L 10 x 0.6 mL	47,85
				11V080DF	Medidrug® ALC VB 080	0,80 g/L 10 x 1.2 mL	79,20
				11V080EF	Medidrug® ALC VB 080	0,80 g/L 10 x 1.5 mL	118,80
				11V080HF	Medidrug® ALC VB 080	0,80 g/L 10 x 3 mL	207,90
				11V100DF	Medidrug® ALC VB 100	1,00 g/L 10 x 1.2 mL	79,20

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

① 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.

## Clinical and Forensic Toxicology

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REF	Product	Unit	€	REF	Product	Unit	€
11V100EF	Medidrug® ALC VB 100	1,00 g/L 10 x 1.5 mL	118,80	20111	Medidrug® Ethanol W 110	1,1 g/L 100 x 1.2 mL	135,00
11V100HF	Medidrug® ALC VB 100	1,00 g/L 10 x 3 mL	207,90	20112	Medidrug® Ethanol W 110	1,1 g/L 10 x 1.5 mL	19,00
11V110BF	Medidrug® ALC VB 110	1,10 g/L 10 x 0.6 mL	47,85	20113	Medidrug® Ethanol W 110	1,1 g/L 10 x 3 mL	36,90
11V110DF	Medidrug® ALC VB 110	1,10 g/L 10 x 1.2 mL	79,20	20130	Medidrug® Ethanol W 130	1,3 g/L 10 x 1.1 mL	16,00
11V110EF	Medidrug® ALC VB 110	1,10 g/L 10 x 1.5 mL	118,80	20131	Medidrug® Ethanol W 130	1,3 g/L 100 x 1.1 mL	135,00
11V110HF	Medidrug® ALC VB 110	1,10 g/L 10 x 3 mL	207,90	20132	Medidrug® Ethanol W 130	1,3 g/L 10 x 1.5 mL	19,00
11V150DF	Medidrug® ALC VB 150	1,50 g/L 10 x 1,2 mL	79,20	20133	Medidrug® Ethanol W 130	1,3 g/L 10 x 3 mL	36,90
11V150EF	Medidrug® ALC VB 150	1,50 g/L 10 x 1,5 mL	118,80	20150	Medidrug® Ethanol W 150	1,5 g/L 10 x 1.1 mL	16,00
11V200BF	Medidrug® ALC VB 200	2,00 g/L 10 x 0.6 mL	47,85	20151	Medidrug® Ethanol W 150	1,5 g/L 100 x 1.1 mL	135,00
11V200DF	Medidrug® ALC VB 200	2,00 g/L 10 x 1.2 mL	79,20	20152	Medidrug® Ethanol W 150	1,5 g/L 10 x 1.5 mL	19,00
11V200EF	Medidrug® ALC VB 200	2,00 g/L 10 x 1.5 mL	118,80	20153	Medidrug® Ethanol W 150	1,5 g/L 10 x 3 mL	36,90
11V200HF	Medidrug® ALC VB 200	2,00 g/L 10 x 3 mL	207,90	20200	Medidrug® Ethanol W 200	2,0 g/L 10 x 1.2 mL	16,00
11V300BF	Medidrug® ALC VB 300	3,00 g/L 10 x 0.6 mL	47,85	20201	Medidrug® Ethanol W 200	2,0 g/L 100 x 1.2 mL	135,00
11V300DF	Medidrug® ALC VB 300	3,00 g/L 10 x 1.2 mL	79,20	20202	Medidrug® Ethanol W 200	2,0 g/L 10 x 1.5 mL	19,00
11V300EF	Medidrug® ALC VB 300	3,00 g/L 10 x 1.5 mL	118,80	20203	Medidrug® Ethanol W 200	2,0 g/L 10 x 3 mL	36,90
11V300HF	Medidrug® ALC VB 300	3,00 g/L 10 x 3 mL	207,90	20300	Medidrug® Ethanol W 300	3,0 g/L 10 x 1.2 mL	16,00
11V400BF	Medidrug® ALC VB 400	4,00 g/L 10 x 0.6 mL	47,85	20301	Medidrug® Ethanol W 300	3,0 g/L 100 x 1.2 mL	135,00
11V400DF	Medidrug® ALC VB 400	4,00 g/L 10 x 1.2 mL	79,20	20302	Medidrug® Ethanol W 300	3,0 g/L 10 x 1.5 mL	19,00
11V400EF	Medidrug® ALC VB 400	4,00 g/L 10 x 1.5 mL	118,80	20303	Medidrug® Ethanol W 300	3,0 g/L 10 x 3 mL	36,90
11V400HF	Medidrug® ALC VB 400	4,00 g/L 10 x 3 mL	207,90	20400	Medidrug® Ethanol W 400	4,0 g/L 10 x 1.2 mL	16,00
				20401	Medidrug® Ethanol W 400	4,0 g/L 100 x 1.2 mL	135,00
				20402	Medidrug® Ethanol W 400	4,0 g/L 10 x 1.5 mL	19,00
				20403	Medidrug® Ethanol W 400	4,0 g/L 10 x 3 mL	36,90
				20500	Medidrug® Ethanol W 500	5,0 g/L 10 x 1.2 mL	16,00
				20501	Medidrug® Ethanol W 500	5,0 g/L 100 x 1.2 mL	135,00
				20502	Medidrug® Ethanol W 500	5,0 g/L 10 x 1.5 mL	19,00
				20503	Medidrug® Ethanol W 500	5,0 g/L 10 x 3 mL	36,90

## 1.5 Alcohol V – Ethanol – Water

⇒ New package size: 10 vials with 1,5 mL

20010	Medidrug® Ethanol W 010	0,1 g/L 10 x 1.2 mL	16,00
20011	Medidrug® Ethanol W 010	0,1 g/L 100 x 1.2 mL	135,00
20012	Medidrug® Ethanol W 010	0,1 g/L 10 x 1.5 mL	19,00
20013	Medidrug® Ethanol W 010	0,1 g/L 10 x 3 mL	36,90
20020	Medidrug® Ethanol W 020	0,2 g/L 10 x 1.2 mL	16,00
20021	Medidrug® Ethanol W 020	0,2 g/L 100 x 1.2 mL	135,00
20022	Medidrug® Ethanol W 020	0,2 g/L 10 x 1.5 mL	19,00
20023	Medidrug® Ethanol W 020	0,2 g/L 10 x 3 mL	36,90
20030	Medidrug® Ethanol W 030	0,3 g/L 10 x 1.2 mL	16,00
20031	Medidrug® Ethanol W 030	0,3 g/L 100 x 1.2 mL	135,00
20032	Medidrug® Ethanol W 030	0,3 g/L 10 x 1.5 mL	19,00
20033	Medidrug® Ethanol W 030	0,3 g/L 10 x 3 mL	36,90
20050	Medidrug® Ethanol W 050	0,5 g/L 10 x 1.2 mL	16,00
20051	Medidrug® Ethanol W 050	0,5 g/L 100 x 1.2 mL	135,00
20052	Medidrug® Ethanol W 050	0,5 g/L 10 x 1.5 mL	19,00
20053	Medidrug® Ethanol W 050	0,5 g/L 10 x 3 mL	36,90
20080	Medidrug® Ethanol W 080	0,8 g/L 10 x 1.2 mL	16,00
20081	Medidrug® Ethanol W 080	0,8 g/L 100 x 1.2 mL	135,00
20082	Medidrug® Ethanol W 080	0,8 g/L 10 x 1.5 mL	19,00
20083	Medidrug® Ethanol W 080	0,8 g/L 10 x 3 mL	36,90
20100	Medidrug® Ethanol W 100	1,0 g/L 10 x 1.2 mL	16,00
20101	Medidrug® Ethanol W 100	1,0 g/L 100 x 1.2 mL	135,00
20102	Medidrug® Ethanol W 100	1,0 g/L 10 x 1.5 mL	19,00
20103	Medidrug® Ethanol W 100	1,0 g/L 10 x 3 mL	36,90
20110	Medidrug® Ethanol W 110	1,1 g/L 10 x 1.2 mL	16,00

⇒ Medidrug Ethanol W 130 &amp; W 150 (article 20130 / 20150 / 20131 / 20151) contain ampoules with 1,1 mL.

## 1.6 Alcohol VI – Consumption Biomarkers - Pure substance, Serum, Urine

70002	Medidrug® Ethylglucuronid	1 x 2 mg	70,00
70010	Medidrug® Ethylglucuronid	1 x 10 mg	230,00
70502	Medidrug® Ethylglucuronid-D5	1 x 2 mg	195,00
70510	Medidrug® Ethylglucuronid-D5	1 x 10 mg	695,00
15SL01GC	Medidrug® ALCM S L1	5 x 2.5 mL	83,00
15SL01GF	Medidrug® ALCM S L1	10 x 2.5 mL	160,00
15SL02GC	Medidrug® ALCM S L2	5 x 2.5 mL	83,00
15SL02GF	Medidrug® ALCM S L2	10 x 2.5 mL	160,00
15SL03GC	Medidrug® ALCM S L3	5 x 2.5 mL	83,00
15SL03GF	Medidrug® ALCM S L3	10 x 2.5 mL	160,00
15SS01GD	Medidrug® ALCM S Set L1 – L3	3x 2x 2.5 mL	135,00
15UL01GC	Medidrug® ALCM U L1	5 x 2.5 mL	82,00
15UL01GF	Medidrug® ALCM U L1	10 x 2.5 mL	159,00
15UL02GC	Medidrug® ALCM U L2 New concentration	5 x 2.5 mL	82,00
15UL02GF	Medidrug® ALCM U L2 New concentration	10 x 2.5 mL	159,00
15UL03GC	Medidrug® ALCM U L3 Former Level 2	5 x 2.5 mL	82,00
15UL03GF	Medidrug® ALCM U L3 Former Level 2	10 x 2.5 mL	159,00

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

① 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.

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REF	Product	Unit	€	REF	Product	Unit	€
15UL04GC	Medidrug® ALCM U L4 Former Level 3	5 x 2,5 mL	82,00	<b>1.13 Blank Matrices – Hair, Serum, Urine and Whole Blood</b>			
15UL04GF	Medidrug® ALCM U L4 Former Level 3	10 x 2,5 mL	159,00	00HL00VA	Medidrug® Basis-line H-a (neg.)	1 x 100 mg	Ⓢ
15US01GD	Medidrug® ALCM U Set L1 - L3	3x 2x 2.5 mL	↻	00HL00XA	Medidrug® Basis-line H-a (neg.)	1 x 300 mg	Ⓢ
15US01GJ	Medidrug® ALCM U Set L1 - L4	4x 2x 2,5 mL	175,00	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
				40201	Medidrug® Basis-line U (neg.)	9 x 5 mL	75,00

**1.7 Alcohol VII – Consumption Biomarkers I - Hair (1-mm-cut)**

<b>Authentic Hair Samples</b>							
	00HL00VA	Medidrug® Basis-line H-a (neg.)	1 x 100 mg	Ⓢ			
	00HL00XA	Medidrug® Basis-line H-a (neg.)	1 x 300 mg	Ⓢ			
LOT	15HR01VA	Medidrug® ALCM 1/11-B H-a	1 x 100 mg	Ⓢ			
LOT	15HR01XA	Medidrug® ALCM 1/11-B H-a	1 x 300 mg	Ⓢ			
LOT	15HR02VA	Medidrug® ALCM 1/11-C H-a	1 x 100 mg	Ⓢ			
LOT	15HR02XA	Medidrug® ALCM 1/11-C H-a	1 x 300 mg	Ⓢ			
LOT	15HR03VA	Medidrug® ALCM 12-A H-a	1 x 100 mg	Ⓢ			
LOT	15HR03XA	Medidrug® ALCM 12-A H-a	1 x 300 mg	Ⓢ			
LOT	15HR04VA	Medidrug® ALCM 12-B H-a	1 x 100 mg	Ⓢ			
LOT	15HR04XA	Medidrug® ALCM 12-B H-a	1 x 300 mg	Ⓢ			
LOT	15HR10VA	Medidrug® ALCM 14-A H-a	1 x 100 mg	Ⓢ			
-New- LOT	15HR10XA	Medidrug® ALCM 14-A H-a	1 x 300 mg	Ⓢ			
-New- LOT	15HR11VA	Medidrug® ALCM 14-B H-a	1 x 100 mg	Ⓢ			
-New- LOT	15HR11XA	Medidrug® ALCM 14-B H-a	1 x 300 mg	Ⓢ			
<b>Spiked Hair Samples</b>							
	15HL00VA	Medidrug® EtG H-d 000	<LOD	1 x 100 mg	45,00		
	15HL00VF	Medidrug® EtG H-d 000	<LOD	10 x 100 mg	400,00		
	15HL02VA	Medidrug® EtG H-d 004	4 pg/mg	1 x 100 mg	45,00		
	15HL02VF	Medidrug® EtG H-d 004	4 pg/mg	10 x 100 mg	400,00		

⇒ **Please note the new order numbers (for the concentrations from 5 pg/mg):**

-NEW-	15HL03VA	Medidrug® EtG H-d 005	5 pg/mg	1 x 100 mg	45,00		
-NEW-	15HL03VF	Medidrug® EtG H-d 005	5 pg/mg	10 x 100 mg	400,00		
	15HL04VA	Medidrug® EtG H-d 007	7 pg/mg	1 x 100 mg	45,00		
	15HL04VF	Medidrug® EtG H-d 007	7 pg/mg	10 x 100 mg	400,00		
	15HL06VA	Medidrug® EtG H-d 020	20 pg/mg	1 x 100 mg	45,00		
	15HL06VF	Medidrug® EtG H-d 020	20 pg/mg	10 x 100 mg	400,00		
	15HL07VA	Medidrug® EtG H-d 025	25 pg/mg	1 x 100 mg	45,00		
	15HL07VF	Medidrug® EtG H-d 025	25 pg/mg	10 x 100 mg	400,00		
	15HL08VA	Medidrug® EtG H-d 030	30 pg/mg	1 x 100 mg	45,00		
	15HL08VF	Medidrug® EtG H-d 030	30 pg/mg	10 x 100 mg	400,00		
	15HL09VA	Medidrug® EtG H-d 040	40 pg/mg	1 x 100 mg	45,00		
	15HL09VF	Medidrug® EtG H-d 040	40 pg/mg	10 x 100 mg	400,00		
	15HL10VA	Medidrug® EtG H-d 050	50 pg/mg	1 x 100 mg	45,00		
	15HL10VF	Medidrug® EtG H-d 050	50 pg/mg	10 x 100 mg	400,00		
	15HL11VA	Medidrug® EtG H-d 100	100 pg/mg	1 x 100 mg	45,00		
	15HL11VF	Medidrug® EtG H-d 100	100 pg/mg	10 x 100 mg	400,00		
	15HL12VA	Medidrug® EtG H-d 200	200 pg/mg	1 x 100 mg	45,00		
	15HL12VF	Medidrug® EtG H-d 200	200 pg/mg	10 x 100 mg	400,00		

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