

	Dispatched	2023-01-30
	First day of analysis	See table 1
	Closing date	See table 1
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Test material

Label	Equalis Art. Nr. 292 2023:01-06/A and 2023:01-06/B
Description	Urine with the addition of reference substance and stabilizer which have been freeze-dried.
Storage	After arrival store in refrigerator, +2 to +8 °C.
Infectious diseases	Testing for infectious diseases has not been performed. For safety reasons, the test material should always be handled using the same precautions as an unknown patient sample.
Stability	After reconstitution, the sample material is stable 7 days, if tightly capped and stored in the dark.

Included components

The table on the last page presents all components included in the quality assessment scheme. The table also has a field for internal notes of results.

Instruction for analysis

The sample material of each round should be reconstituted and analysed according to the dates given in table 1.

Allow the vials A and B to reach room temperature. Be careful when opening the vials so that the lyophilized material does not go out. After reconstitution, the material should be treated as if it were a patient sample.

Reconstitution

1. Dispense 1.0 mL of distilled water into the vial.
2. Close the cap and gently invert the bottle a few times.
3. Mix for 20 minutes on a tube rocker at room temperature.
4. Mix the bottle thoroughly, for example with a vortex mixer shortly before measuring.
5. The sample is stable for 7 days in the refrigerator after reconstitution.

Registration of results

The results are registered on Equalis Online in the same format as you report results from patient samples (regarding decimals and conversion factors). The characters <and> can be used.

When analyzing with the DRI-EtG method, the results shall be registered as positive/negative. If possible, the results can also be registered as numeric values.

Note that 0 can only be registered as a comment. In the field for cut off value the value separating negative from positive should be entered.

Registered results may be changed until the closing date.

Method information

Check that correct method information is registered and change if necessary.

Reports

A summary of the results is sent to the participants within one month from the closing date.

Table 1. First day of analysis and closing date for Alcohol biomarkers in urine

Round	First day of analysis	Closing date	Included sample material
2023:01	2023-01-30	2023-02-16	Equalis Art. Nr. 292 2023:01/A-B
2023:02	2023-03-20	2023-03-27	Equalis Art. Nr. 292 2023:02/A-B
2023:03	2023-05-15	2023-05-22	Equalis Art. Nr. 292 2023:03/A-B
2023:04	2023-08-28	2023-09-04	Equalis Art. Nr. 292 2023:04/A-B
2023:05	2023-10-09	2023-10-16	Equalis Art. Nr. 292 2023:05/A-B
2023:06	2023-11-06	2023-11-13	Equalis Art. Nr. 292 2023:06/A-B

Component*		Notes/ Results**	
		/A	/B
U—EtG (mg/L)	Urine—Ethyl glucuronide; mass concentration		
U—EtG (Pos/Neg)	Urine—Ethyl glucuronide; arbitrary concentration		
U—EtS (mg/L)	Urine—Ethyl sulfate; mass concentration		

* All components included in the scheme.

** The results are registered on Equalis Online in the same answer as if it were one patient sample (regarding decimals and the conversion factor). Registered results may be changed until the closing date.

Lab code: _____

Instrument: _____

Analysis date: _____

Sample	Component	Output group	n	Mean value	SD	CV%
A	U-EtG (mg/L)	All results	14	5,58	0,42	7,6
		DRI-EtG	4	5,97	0,80	13,5
		LC-MS/MS	9	5,47	0,32	5,8
		Other	1	5,46		
	U-EtS (mg/L)	All results	9	1,72	0,18	10,3
		LC-MS/MS	9	1,72	0,18	10,3
B	U-EtG (mg/L)	All results	15	2,61	0,23	8,7
		DRI-EtG	5	2,57	0,47	18,5
		LC-MS/MS	9	2,60	0,14	5,5
		Other	1	2,64		
	U-EtS (mg/L)	All results	9	0,77	0,07	9,2
		LC-MS/MS	9	0,77	0,07	9,2

Sample	Component	Output group	Results	No. of res.
A	U-EtG (Pos/Neg)	All results	Positive	7
			Negative	0
		DRI-EtG	Positive	6
		Not available	Positive	1
B	U-EtG (Pos/Neg)	All results	Positive	7
			Negative	0
		DRI-EtG	Positive	6
		Not available	Positive	1

Round opened 2023-01-30
Closing date 2023-02-16

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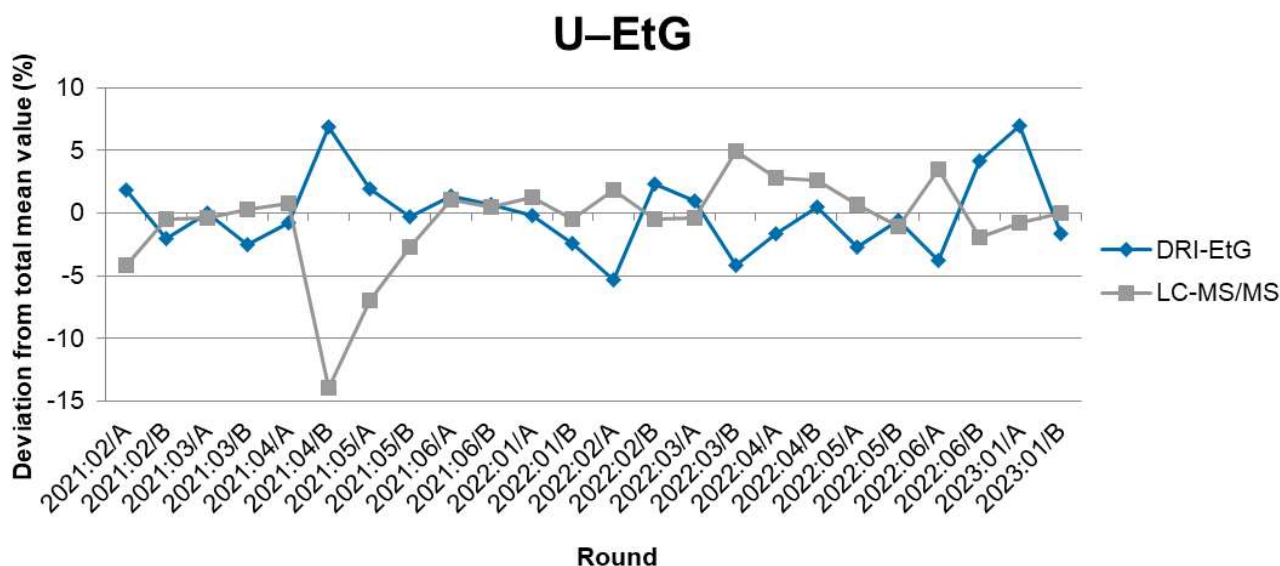
Summary of results

On the first page of your result report, the expected result is presented. Expected result is the value your result is compared to. The uncertainty of the expected result is presented on the subsequent pages. When output group mean value is the expected result, the uncertainty of the value will only be presented for output groups with three or more results.

U—EtG

In figure 1, the deviation from total mean value in % per output group is presented for the last two years. For sample B, the output groups have a good agreement in result level but for sample A the result levels of the output groups deviate more. A high result variation is observed within output group DRI—EtG, for sample A (CV 13,5 %) the reported results varies between 5,22–6,90 mg/L and for sample B (CV 18,5 %) the reported results varies between 2,00–3,04 mg/L.

Figure 1. Deviation from total mean value in % per output group for U—EtG.



Test material

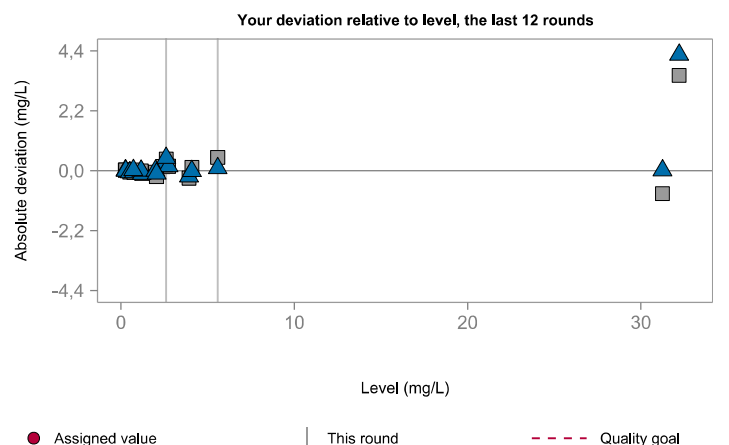
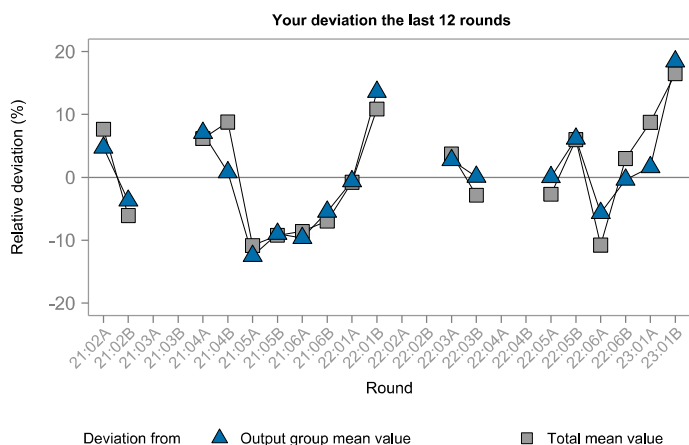
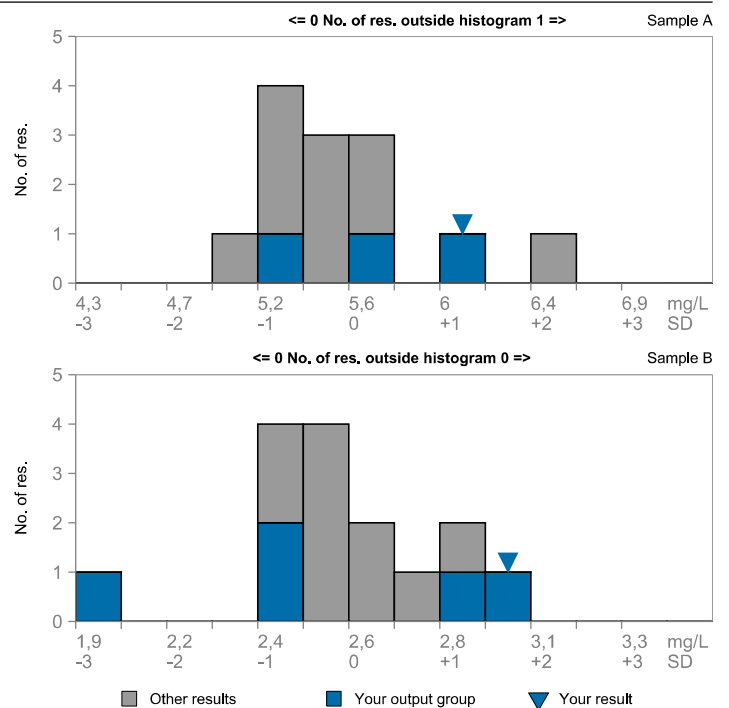
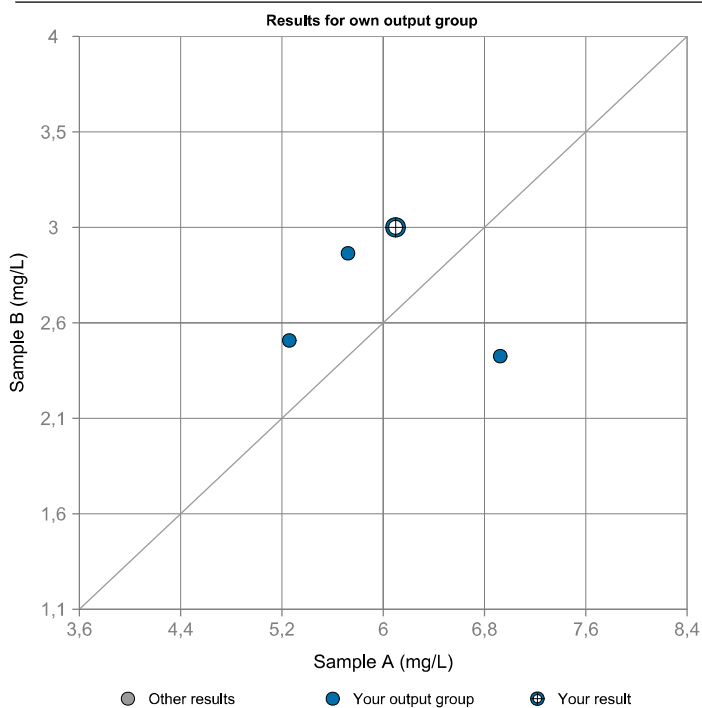
Sample A and B consisted of urine with added reference substance and stabilizer (NaN₃), which have then been freeze dried.

Based on the previous tests and the results of this round, the samples are homogeneous, stable and suitable for the external quality assessment scheme.

U-EtG (mg/L)

Sample : A & B

		Your output group		A (4)	B (5)	All	A (14)	B (15)
Quality goal (%)	-					Mean value	5,97	2,57
Your output group	DRI-EtG					SD	0,80	0,47
						CV%	13,5	18,5
Your result		A	B			Your deviation from total mean value		
Expected result (Your output group)		6,068	3,038			Absolute (mg/L)	+0,49	+0,43
Your deviation						Relative (%)	+8,7	+16,5
Absolute (mg/L)		+0,10	+0,47			No. of SD	+1,15	+1,89
Relative (%)		+1,6	+18,4			Mean deviation (%) (last 9 rounds)		+0,7

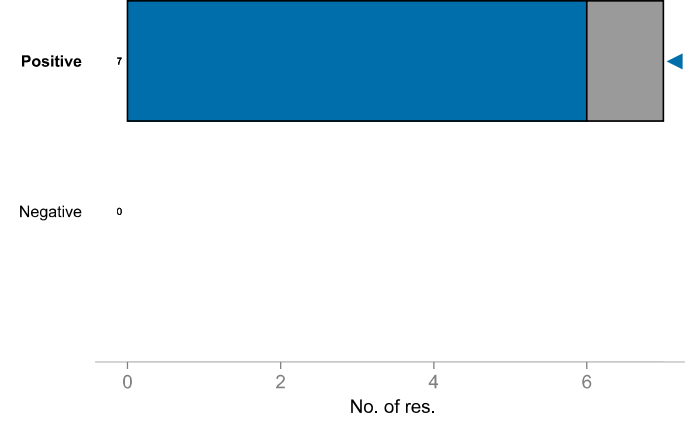


U-EtG (Pos/Neg)

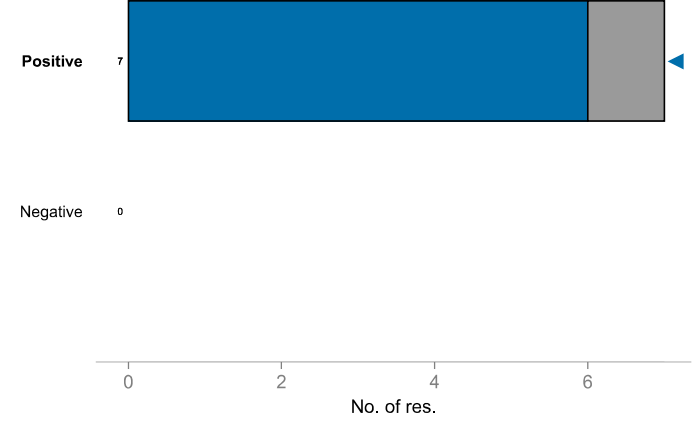
Sample: /A U-EtG (Pos/Neg)

Sample: /B

Your result: Positive



Your result: Positive



◀ Arrow points att bar with own result