

External Quality Assessment Scheme

Urine strip test A Round 1, 2023

Specimens

Please find enclosed a lyophilized human urine sample S001 à 15 mL and three empty tubes (à 5 mL) per each ordered sample vial for dividing the sample. You will also get a water tube for sample dissolution if you have ordered it separately (3101, Urine strip test A, dissolution water, 15 mL).

Caution

Quality control samples derived from human urine must be handled with the same care as patient samples, i.e. as potential transmitters of serious diseases.

Examinations

U-Glucose, U-Ketones, U-Blood (erythrocytes), U-pH, U-Protein, U-Nitrite, U-Leukocytes and U-Relative Density.

Storage and use

After arrival the sample should be stored at +2...8 °C. Add 15 mL of distilled or reagent grade water at room temperature into the bottle.

If you have ordered the dissolution water (3101, à 15 mL), just pour the water from the tube carefully into the sample bottle and tap gently the remaining water drops to the sample bottle. Rotate the vessel gently for 1 minute and leave at room temperature for 45 minutes. Rotate the vessel gently but thoroughly just before use. Analysis should be performed from room temperature sample. Dissolved sample is stable for 5 days when stored at +2...8 °C.

If you measure with several strips, divide the dissolved sample to the tubes, 5 mL/each, and use one tube per strip.

Result reporting

Please enter the results and methods via LabScala (www.labscala.com). If you cannot find your instrument or reagent from the registry, please contact the EQA Coordinator. From one sample bottle you may report the results of three different strips/instruments if you wish.

“Trace” category in strip tests is interpreted as negative.

S001



2023-01-30

INSTRUCTIONS

Product no. 3100-3101
LQ744423011/US

If the kit is incomplete or contains damaged specimens, please report immediately to info@labquality.fi.

The results should be reported no later than
February 17, 2023.

Inquiries

EQA Coordinator
Anna-Riitta Vanhanen
anna-riitta.vanhanen@labquality.fi

Labquality Oy

Kumpulantie 15
FI-00520 HELSINKI
Finland

Tel. + 358 9 8566 8200
Fax + 358 9 8566 8280

info@labquality.fi
www.labquality.com



S001|U-Erythrocytes|cobas|05.02.2023

Methodics name	Total	- neg, trace	1+	2+	3+	≥ 4+	Strip expired
Acon Mission U500	1	0	0	1	0	0	0 0
Acon Visual reading	2	0	0	2	0	0	0 0
Acro Biotech visual reading	1	1	0	0	0	0	0 0
Arkray Aution Max	1	0	1	0	0	0	0 0
Arkray visual reading	1	0	0	0	1	0	0 0
BioMaxima BM URI 500	3	0	3	0	0	0	0 0
Biosynex visual reading	7	1	6	0	0	0	0 0
Cybow visual reading	1	0	0	1	0	0	0 0
Dirui H-800	1	0	1	0	0	0	0 0
Erba Lachema Uro-dipcheck 240 E	1	0	0	1	0	0	0 0
Erba Lachema Laura	2	0	0	1	1	0	0 0
Erba Lachema Laura Smart	2	0	0	2	0	0	0 0
Iris Diagnostics iChem 100	1	1	0	0	0	0	0 0
Macherey-Nagel Uryxxon	1	0	0	1	0	0	0 0
Macherey-Nagel visual reading	3	1	0	1	1	0	0 1
Roche Urisys 1100	12	0	0	1	1	10	0 0
Roche Urisys 1800/Cobas u411	17	0	0	0	4	13	0 0
Roche Urisys 2400/Cobas u601	5	0	0	0	1	4	0 0
Roche visual reading	32	0	2	2	16	12	2 2
Siemens Clinitek Advantus	53	0	24	29	0	0	0 2
Siemens Clinitek Novus	2	0	0	2	0	0	0 0
Siemens Clinitek Status	68	0	10	58	0	0	0 0
Siemens Clinitek Status +	265	0	38	227	0	0	0 2
Siemens Clinitek 50	3	1	0	2	0	0	0 0
Siemens Clinitek 500	3	0	0	3	0	0	0 0
Siemens visual reading	45	0	14	30	1	0	0 0
Sysmex UC-1000	2	0	2	0	0	0	0 0
Sysmex UC-3500	5	0	5	0	0	0	0 0
Urit Medical Electronic URIT-500B and C	1	0	1	0	0	0	0 0
Yeongdong Uriscan Super	7	0	0	6	1	0	0 0
Yeongdong Uriscan-Pro	7	1	2	3	1	0	0 0
77 Elektronika LabUMat	4	0	0	3	1	0	0 0
Total	559	6	109	376	29	39	7

S001|U-Glucose|cobas|05.02.2023

Methodics name	Total	- neg, trace	1+	2+	3+	≥ 4+	Strip expired
Acon Mission U500	1	0	1	0	0	0	0 0
Acon Visual reading	1	0	1	0	0	0	0 0
Acro Biotech visual reading	1	0	1	0	0	0	0 0
Arkray Aution Max	1	0	0	1	0	0	0 0
Arkray visual reading	1	0	0	1	0	0	0 0
BioMaxima BM URI 500	3	0	3	0	0	0	0 0
Biosynex visual reading	5	0	1	0	3	1	0 0
Cybow visual reading	1	0	1	0	0	0	0 0
Dirui H-800	1	0	1	0	0	0	0 0
Erba Lachema Uro-dipcheck 240 E	1	0	0	1	0	0	0 0
Erba Lachema Laura	2	0	0	1	1	0	0 0
Erba Lachema Laura Smart	2	0	0	1	1	0	0 0
Iris Diagnostics iChem 100	1	1	0	0	0	0	0 0
Macherey-Nagel Uryxxon	1	0	0	0	1	0	0 0
Macherey-Nagel visual reading	3	0	0	0	2	1	1 1
Roche Urisys 1100	12	0	0	6	6	0	0 0
Roche Urisys 1800/Cobas u411	17	0	2	13	2	0	0 0
Roche Urisys 2400/Cobas u601	5	0	0	2	3	0	0 0
Roche visual reading	17	0	1	0	15	1	2 0
Siemens Clinitek Advantus	53	1	40	10	1	1	2 0
Siemens Clinitek Novus	2	0	1	0	0	1	0 0
Siemens Clinitek Status	69	17	42	10	0	0	0 0
Siemens Clinitek Status +	268	41	166	57	4	0	2 0
Siemens Clinitek 50	3	1	1	1	0	0	0 0
Siemens Clinitek 500	3	0	2	1	0	0	0 0
Siemens visual reading	38	4	21	10	1	2	0 0
Sysmex UC-1000	2	0	0	2	0	0	0 0
Sysmex UC-3500	5	0	1	4	0	0	0 0
Urit Medical Electronic URIT-500B and C	1	0	0	1	0	0	0 0
Yeongdong Uriscan Super	7	0	4	3	0	0	0 0
Yeongdong Uriscan-Pro	7	0	3	2	2	0	0 0
77 Elektronika LabUMat	4	0	0	3	1	0	0 0
Total	538	65	293	130	43	7	7

S001|U-Ketone bodies|cobas|05.02.2023

Methodics name	Total	- neg, trace	1+	2+	3+	≥ 4+	Strip expired
Acon Mission U500	1	1	0	0	0	0	0 0
Acon Visual reading	1	0	0	1	0	0	0 0
Acro Biotech visual reading	1	0	1	0	0	0	0 0
Arkray Aution Max	1	0	1	0	0	0	0 0
Arkray visual reading	1	0	0	1	0	0	0 0
BioMaxima BM URI 500	3	1	2	0	0	0	0 0
Biosynex visual reading	7	1	6	0	0	0	0 0
Cybow visual reading	1	0	0	0	0	1	1 0
Dirui H-800	1	0	1	0	0	0	0 0
Erba Lachema Uro-dipcheck 240 E	1	0	1	0	0	0	0 0
Erba Lachema Laura	2	1	0	1	0	0	0 0
Erba Lachema Laura Smart	2	0	2	0	0	0	0 0
Human visual reading	3	0	3	0	0	0	0 0
Iris Diagnostics iChem 100	1	0	1	0	0	0	0 0
Macherey-Nagel Uryxxon	1	0	1	0	0	0	0 0
Macherey-Nagel visual reading	7	0	3	4	0	0	0 1
Roche Urisys 1100	12	1	4	6	1	0	0 0
Roche Urisys 1800/Cobas u411	17	1	2	5	9	0	0 0
Roche Urisys 2400/Cobas u601	5	0	0	2	3	0	0 0
Roche visual reading	32	1	18	11	2	0	0 2
Siemens Clinitek Advantus	53	1	41	8	3	0	0 2
Siemens Clinitek Novus	2	0	2	0	0	0	0 0
Siemens Clinitek Status	68	4	7	37	19	1	0 0
Siemens Clinitek Status +	267	14	32	121	95	5	2 0
Siemens Clinitek 50	3	0	0	1	2	0	0 0
Siemens Clinitek 500	3	0	2	1	0	0	0 0
Siemens visual reading	43	0	1	24	14	4	0 0
Sysmex UC-1000	2	0	0	2	0	0	0 0
Sysmex UC-3500	5	0	3	2	0	0	0 0
Urit Medical Electronic URIT-500B and C	1	0	1	0	0	0	0 0
Yeongdong Uriscan Super	7	0	3	4	0	0	0 0
Yeongdong Uriscan-Pro	7	1	3	3	0	0	0 0
77 Elektronika LabUMat	4	0	4	0	0	0	0 0
Total	565	27	145	234	148	11	7

S001|U-Leukocytes|cobas|05.02.2023

Methodics name	Total	- neg, trace	1+	2+	3+	≥ 4+	Strip expired
Acon Mission U500	1	0	0	1	0	0	0
Acon Visual reading	2	0	0	1	1	0	0
Acro Biotech visual reading	1	0	1	0	0	0	0
Arkray Aution Max	1	0	0	0	1	0	0
Arkray visual reading	1	0	0	0	1	0	0
BioMaxima BM URI 500	3	0	0	3	0	0	0
Biosynex visual reading	3	1	0	2	0	0	0
Cybow visual reading	1	0	0	0	1	0	0
Dirui H-800	1	0	0	0	1	0	0
Erba Lachema Uro-dipcheck 240 E	1	0	0	1	0	0	0
Erba Lachema Laura	2	0	1	1	0	0	0
Erba Lachema Laura Smart	2	0	1	1	0	0	0
Iris Diagnostics iChem 100	1	0	0	1	0	0	0
Macherey-Nagel Uryxxon	1	0	0	1	0	0	0
Macherey-Nagel visual reading	3	1	0	2	0	0	1
Roche Urisys 1100	12	0	1	3	8	0	0
Roche Urisys 1800/Cobas u411	17	0	0	1	14	2	0
Roche Urisys 2400/Cobas u601	5	0	0	1	4	0	0
Roche visual reading	18	1	5	12	0	0	2
Siemens Clinitek Advantus	53	0	13	35	5	0	2
Siemens Clinitek Novus	2	0	0	0	2	0	0
Siemens Clinitek Status	69	0	25	38	6	0	0
Siemens Clinitek Status +	268	0	80	127	61	0	2
Siemens Clinitek 50	3	0	1	2	0	0	0
Siemens Clinitek 500	3	0	0	2	1	0	0
Siemens visual reading	37	1	7	16	12	1	0
Sysmex UC-1000	2	0	0	2	0	0	0
Sysmex UC-3500	5	0	1	4	0	0	0
Urit Medical Electronic URIT-500B and C	1	0	1	0	0	0	0
Yeongdong Uriscan Super	7	1	5	1	0	0	0
Yeongdong Uriscan-Pro	7	0	4	2	1	0	0
77 Elektronika LabUMat	4	0	0	0	3	1	0
Total	537		5	146	260	122	4

S001|U-Nitrite|cobas|05.02.2023

Methodics name	Total	positive	negative	Strip expired
Acon Mission U500	1	1		0 0
Acon Visual reading	1	1		0 0
Acro Biotech visual reading	1	1		0 0
Arkray Aution Max	1	1		0 0
Arkray visual reading	1	1		0 0
BioMaxima BM URI 500	3	2		1 0
Biosynex visual reading	6	6		0 0
Cybow visual reading	1	1		0 0
Dirui H-800	1	1		0 0
Erba Lachema Uro-dipcheck 240 E	1	1		0 0
Erba Lachema Laura	2	2		0 0
Erba Lachema Laura Smart	2	2		0 0
Human visual reading	3	3		0 0
Iris Diagnostics iChem 100	1	1		0 0
Macherey-Nagel Uryxxon	1	1		0 0
Macherey-Nagel visual reading	7	7		0 1
Roche Urisys 1100	12	12		0 0
Roche Urisys 1800/Cobas u411	17	17		0 0
Roche Urisys 2400/Cobas u601	5	5		0 0
Roche visual reading	34	33		1 2
Siemens Clinitek Advantus	53	53		0 2
Siemens Clinitek Novus	2	2		0 0
Siemens Clinitek Status	69	69		0 0
Siemens Clinitek Status +	268	268		0 2
Siemens Clinitek 50	3	2		1 0
Siemens Clinitek 500	3	3		0 0
Siemens visual reading	44	44		0 0
Sysmex UC-1000	2	2		0 0
Sysmex UC-3500	5	5		0 0
Urit Medical Electronic URIT-500B and C	1	1		0 0
Yeongdong Uriscan Super	7	7		0 0
Yeongdong Uriscan-Pro	7	6		1 0
77 Elektronika LabUMat	4	4		0 0
Total	569	565		4 7

S001|U-Protein|cobas|05.02.2023

Methodics name	Total	- neg, trace	1+	2+	3+	≥ 4+	Strip expired
Acon Mission U500	1	1	0	0	0	0	0
Acon Visual reading	1	1	0	0	0	0	0
Acro Biotech visual reading	1	0	1	0	0	0	0
Arkray Aution Max	1	0	1	0	0	0	0
Arkray visual reading	1	1	0	0	0	0	0
BioMaxima BM URI 500	3	3	0	0	0	0	0
Biosynex visual reading	5	3	2	0	0	0	0
Cybow visual reading	1	1	0	0	0	0	0
Dirui H-800	1	0	1	0	0	0	0
Erba Lachema Uro-dipcheck 240 E	1	0	1	0	0	0	0
Erba Lachema Laura	2	2	0	0	0	0	0
Erba Lachema Laura Smart	2	2	0	0	0	0	0
Iris Diagnostics iChem 100	1	1	0	0	0	0	0
Macherey-Nagel Uryxxon	1	0	1	0	0	0	0
Macherey-Nagel visual reading	3	2	1	0	0	0	1
Roche Urisys 1100	12	3	9	0	0	0	0
Roche Urisys 1800/Cobas u411	17	1	14	2	0	0	0
Roche Urisys 2400/Cobas u601	5	1	4	0	0	0	0
Roche visual reading	17	0	16	1	0	0	2
Siemens Clinitek Advantus	53	34	19	0	0	0	2
Siemens Clinitek Novus	2	0	2	0	0	0	0
Siemens Clinitek Status	69	0	66	3	0	0	0
Siemens Clinitek Status +	268	1	250	17	0	0	2
Siemens Clinitek 50	2	0	2	0	0	0	0
Siemens Clinitek 500	3	2	1	0	0	0	0
Siemens visual reading	38	12	24	2	0	0	0
Sysmex UC-1000	2	0	2	0	0	0	0
Sysmex UC-3500	5	0	5	0	0	0	0
Urit Medical Electronic URIT-500B and C	1	1	0	0	0	0	0
Yeongdong Uriscan Super	7	6	1	0	0	0	0
Yeongdong Uriscan-Pro	7	5	2	0	0	0	0
77 Elektronika LabUMat	4	3	1	0	0	0	0
Total	537	86	426	25	0	0	7

S001|U-pH|cobas|05.02.2023

Methodics name	Total	5,0	5,5	6,0	6,5	7,0	7,5	8,0	8,5	9,0	Strip expired
Acon Mission U500	1	0	0	0	0	1	0	0	0	0	0
Acon Visual reading	1	0	0	0	0	0	0	1	0	0	0
Acro Biotech visual reading	1	0	0	0	0	0	1	0	0	0	0
Arkray Aution Max	1	0	0	0	0	0	1	0	0	0	0
Arkray visual reading	1	0	0	0	0	1	0	0	0	0	0
BioMaxima BM URI 500	3	0	0	0	0	3	0	0	0	0	0
Biosynex visual reading	7	0	0	0	0	3	0	4	0	0	0
Cybow visual reading	1	0	0	0	0	0	0	1	0	0	0
Dirui H-800	1	0	0	0	0	0	1	0	0	0	0
Erba Lachema Uro-dipcheck 240 E	1	0	0	0	0	1	0	0	0	0	0
Erba Lachema Laura	2	0	0	0	0	0	0	2	0	0	0
Erba Lachema Laura Smart	2	0	0	0	0	0	1	1	0	0	0
Human visual reading	3	0	0	0	0	3	0	0	0	0	0
Iris Diagnostics iChem 100	1	0	0	0	0	0	0	1	0	0	0
Macherey-Nagel Uryxxon	1	0	0	0	0	0	0	1	0	0	0
Macherey-Nagel visual reading	7	0	0	0	0	4	2	1	0	0	1
Roche Urisys 1100	12	0	0	0	0	0	0	12	0	0	0
Roche Urisys 1800/Cobas u411	17	0	0	0	0	1	0	16	0	0	0
Roche Urisys 2400/Cobas u601	5	0	0	0	0	0	0	5	0	0	0
Roche visual reading	31	0	0	0	0	4	4	23	0	0	2
Siemens Clinitek Advantus	53	0	0	0	0	3	30	20	0	0	2
Siemens Clinitek Novus	2	0	0	0	0	0	1	1	0	0	0
Siemens Clinitek Status	68	0	0	0	0	6	50	10	2	0	0
Siemens Clinitek Status +	267	0	0	0	1	17	232	9	8	0	2
Siemens Clinitek 50	3	0	0	0	0	2	1	0	0	0	0
Siemens Clinitek 500	3	0	0	0	0	0	1	2	0	0	0
Siemens visual reading	44	0	0	4	1	2	23	14	0	0	0
Sysmex UC-1000	2	0	0	0	0	0	2	0	0	0	0
Sysmex UC-3500	5	0	0	0	0	0	5	0	0	0	0
Urit Medical Electronic URIT-500B and C	1	0	0	0	0	0	1	0	0	0	0
Yeongdong Uriscan Super	7	0	0	0	0	5	2	0	0	0	0
Yeongdong Uriscan-Pro	7	0	0	0	0	3	3	0	1	0	0
77 Elektronika LabUMat	4	0	0	0	0	3	1	0	0	0	0
Total	565	0	0	4	2	62	362	124	11	0	7

S001|U-Relative density|cobas|05.02.2023

Methodics name	Total	1,000	1,005	1,010	1,015	1,020	1,025	1,030	Strip expired
Acon Mission U500	1	0	0	0	1	0	0	0	0
Acon Visual reading	1	0	0	1	0	0	0	0	0
Acro Biotech visual reading	1	0	1	0	0	0	0	0	0
Arkray Aution Max	1	0	1	0	0	0	0	0	0
Arkray visual reading	1	0	0	1	0	0	0	0	0
BioMaxima BM URI 500	3	0	0	0	3	0	0	0	0
Biosynex visual reading	6	0	2	2	2	0	0	0	0
Cybow visual reading	1	0	0	1	0	0	0	0	0
Dirui H-800	1	0	1	0	0	0	0	0	0
Erba Lachema Uro-dipcheck 240 E	1	1	0	0	0	0	0	0	0
Erba Lachema Laura	2	0	1	1	0	0	0	0	0
Erba Lachema Laura Smart	2	0	1	0	1	0	0	0	0
Human visual reading	3	0	0	3	0	0	0	0	0
Iris Diagnostics iChem 100	1	0	1	0	0	0	0	0	0
Macherey-Nagel Uryxson	1	0	1	0	0	0	0	0	0
Macherey-Nagel visual reading	5	0	3	1	1	0	0	0	1
Roche Urisys 1100	11	0	3	8	0	0	0	0	0
Roche Urisys 1800/Cobas u411	17	0	1	5	10	1	0	0	0
Roche Urisys 2400/Cobas u601	5	0	2	3	0	0	0	0	0
Roche visual reading	19	5	9	5	0	0	0	0	0
Siemens Clinitek Advantus	53	0	1	32	20	0	0	0	2
Siemens Clinitek Novus	2	0	1	1	0	0	0	0	0
Siemens Clinitek Status	67	0	0	1	53	12	1	0	0
Siemens Clinitek Status +	266	0	0	11	210	42	2	1	2
Siemens Clinitek 50	3	0	0	1	2	0	0	0	0
Siemens Clinitek 500	3	0	0	1	2	0	0	0	0
Siemens visual reading	41	1	17	12	8	3	0	0	0
Sysmex UC-1000	2	0	0	0	1	1	0	0	0
Sysmex UC-3500	5	0	5	0	0	0	0	0	0
Urit Medical Electronic URIT-500B and C	1	0	1	0	0	0	0	0	0
Yeongdong Uriscan Super	7	0	5	2	0	0	0	0	0
Yeongdong Uriscan-Pro	7	0	2	4	1	0	0	0	0
77 Elektronika LabUMat	4	0	2	2	0	0	0	0	0
Total	544	7	61	98	315	59	3	1	5

Report info**Participants**

501 participants from 12 countries.

Report info

The expected result is the most frequent category in the reports (mode or top of the distribution) for each method group. An acceptable outcome is that the result differs from the expected value maximally by one category (not applicable to nitrite which has only one category for positivity in most reflectance readers and in visual reading).

In the report the most frequent result class (mode) is marked using green color representing the expected value although there are only one or few results in group.

Your own result should be compared to others using the same method. In case the client's result is the only one in the method group or there are only a few results in the group the result can be compared to results of other groups of the same manufacturer. This is because the scales of positivity vary between the manufacturers.

For information on report interpretation and performance evaluation, please see the "EOAS Interpretation guidelines" in LabScala User instructions (top right corner ?Help link).

S001|U-Erythrocytes

Methodics name	Total	- neg, trace	1+	2+	3+	≥ 4+	Strip expired
Acon Mission U500	1	0	0	1	0	0	0
Acon Visual reading	2	0	0	2	0	0	0
Acro Biotech visual reading	1	1	0	0	0	0	0
Arkray Aution Max	1	0	1	0	0	0	0
Arkray visual reading	1	0	0	0	1	0	0
BioMaxima BM URI 500	3	0	3	0	0	0	0
Biosynex visual reading	7	1	6	0	0	0	0
Cybow visual reading	1	0	0	1	0	0	0
Dirui H-800	1	0	1	0	0	0	0
Erba Lachema Uro-dipcheck 240 E	1	0	0	1	0	0	0
Erba Lachema Laura	2	0	0	1	1	0	0
Erba Lachema Laura Smart	2	0	0	2	0	0	0
Iris Diagnostics iChem 100	1	1	0	0	0	0	0
Macherey-Nagel Uryxxon	1	0	0	1	0	0	0
Macherey-Nagel visual reading	3	1	0	1	1	0	1
Roche Urisys 1100	12	0	0	1	1	10	0
Roche Urisys 1800/Cobas u411	17	0	0	0	4	13	0
Roche Urisys 2400/Cobas u601	5	0	0	0	1	4	0
Roche visual reading	32	0	2	2	16	12	2
Siemens Clinitek Advantus	53	0	24	29	0	0	2
Siemens Clinitek Novus	2	0	0	2	0	0	0
Siemens Clinitek Status	68	0	10	58	0	0	0
Siemens Clinitek Status +	265	0	38	227	0	0	2
Siemens Clinitek 50	3	1	0	2	0	0	0
Siemens Clinitek 500	3	0	0	3	0	0	0
Siemens visual reading	45	0	14	30	1	0	0
Sysmex UC-1000	2	0	2	0	0	0	0
Sysmex UC-3500	5	0	5	0	0	0	0
Urit Medical Electronic URIT-500B and C	1	0	1	0	0	0	0
Yeongdong Uriscan Super	7	0	0	6	1	0	0
Yeongdong Uriscan-Pro	7	1	2	3	1	0	0
77 Elektronika LabUMat	4	0	0	3	1	0	0
Total	559	6	109	376	29	39	7

S001|U-Glucose

Methodics name	Total	- neg, trace	1+	2+	3+	≥ 4+	Strip expired
Acon Mission U500	1	0	1	0	0	0	0 0
Acon Visual reading	1	0	1	0	0	0	0 0
Acro Biotech visual reading	1	0	1	0	0	0	0 0
Arkray Aution Max	1	0	0	1	0	0	0 0
Arkray visual reading	1	0	0	1	0	0	0 0
BioMaxima BM URI 500	3	0	3	0	0	0	0 0
Biosynex visual reading	5	0	1	0	3	1	1 0
Cybow visual reading	1	0	1	0	0	0	0 0
Dirui H-800	1	0	1	0	0	0	0 0
Erba Lachema Uro-dipcheck 240 E	1	0	0	1	0	0	0 0
Erba Lachema Laura	2	0	0	1	1	0	0 0
Erba Lachema Laura Smart	2	0	0	1	1	0	0 0
Iris Diagnostics iChem 100	1	1	0	0	0	0	0 0
Macherey-Nagel Uryxxon	1	0	0	0	1	0	0 0
Macherey-Nagel visual reading	3	0	0	0	2	1	1 1
Roche Urisys 1100	12	0	0	6	6	0	0 0
Roche Urisys 1800/Cobas u411	17	0	2	13	2	0	0 0
Roche Urisys 2400/Cobas u601	5	0	0	2	3	0	0 0
Roche visual reading	17	0	1	0	15	1	2 0
Siemens Clinitek Advantus	53	1	40	10	1	1	2 0
Siemens Clinitek Novus	2	0	1	0	0	1	0 0
Siemens Clinitek Status	69	17	42	10	0	0	0 0
Siemens Clinitek Status +	268	41	166	57	4	0	2 0
Siemens Clinitek 50	3	1	1	1	0	0	0 0
Siemens Clinitek 500	3	0	2	1	0	0	0 0
Siemens visual reading	38	4	21	10	1	2	0 0
Sysmex UC-1000	2	0	0	2	0	0	0 0
Sysmex UC-3500	5	0	1	4	0	0	0 0
Urit Medical Electronic URIT-500B and C	1	0	0	1	0	0	0 0
Yeongdong Uriscan Super	7	0	4	3	0	0	0 0
Yeongdong Uriscan-Pro	7	0	3	2	2	0	0 0
77 Elektronika LabUMat	4	0	0	3	1	0	0 0
Total	538	65	293	130	43	7	7

S001|U-Ketone bodies

Methodics name	Total	- neg, trace	1+	2+	3+	≥ 4+	Strip expired
Acon Mission U500	1	1	0	0	0	0	0 0
Acon Visual reading	1	0	0	1	0	0	0 0
Acro Biotech visual reading	1	0	1	0	0	0	0 0
Arkray Aution Max	1	0	1	0	0	0	0 0
Arkray visual reading	1	0	0	1	0	0	0 0
BioMaxima BM URI 500	3	1	2	0	0	0	0 0
Biosynex visual reading	7	1	6	0	0	0	0 0
Cybow visual reading	1	0	0	0	0	1	1 0
Dirui H-800	1	0	1	0	0	0	0 0
Erba Lachema Uro-dipcheck 240 E	1	0	1	0	0	0	0 0
Erba Lachema Laura	2	1	0	1	0	0	0 0
Erba Lachema Laura Smart	2	0	2	0	0	0	0 0
Human visual reading	3	0	3	0	0	0	0 0
Iris Diagnostics iChem 100	1	0	1	0	0	0	0 0
Macherey-Nagel Uryxxon	1	0	1	0	0	0	0 0
Macherey-Nagel visual reading	7	0	3	4	0	0	0 1
Roche Urisys 1100	12	1	4	6	1	0	0 0
Roche Urisys 1800/Cobas u411	17	1	2	5	9	0	0 0
Roche Urisys 2400/Cobas u601	5	0	0	2	3	0	0 0
Roche visual reading	32	1	18	11	2	0	0 2
Siemens Clinitek Advantus	53	1	41	8	3	0	0 2
Siemens Clinitek Novus	2	0	2	0	0	0	0 0
Siemens Clinitek Status	68	4	7	37	19	1	1 0
Siemens Clinitek Status +	267	14	32	121	95	5	5 2
Siemens Clinitek 50	3	0	0	1	2	0	0 0
Siemens Clinitek 500	3	0	2	1	0	0	0 0
Siemens visual reading	43	0	1	24	14	4	4 0
Sysmex UC-1000	2	0	0	2	0	0	0 0
Sysmex UC-3500	5	0	3	2	0	0	0 0
Urit Medical Electronic URIT-500B and C	1	0	1	0	0	0	0 0
Yeongdong Uriscan Super	7	0	3	4	0	0	0 0
Yeongdong Uriscan-Pro	7	1	3	3	0	0	0 0
77 Elektronika LabUMat	4	0	4	0	0	0	0 0
Total	565	27	145	234	148	11	7

S001|U-Leukocytes

Methodics name	Total	- neg, trace	1+	2+	3+	≥ 4+	Strip expired
Acon Mission U500	1	0	0	1	0	0	0 0
Acon Visual reading	2	0	0	1	1	0	0 0
Acro Biotech visual reading	1	0	1	0	0	0	0 0
Arkray Aution Max	1	0	0	0	1	0	0 0
Arkray visual reading	1	0	0	0	1	0	0 0
BioMaxima BM URI 500	3	0	0	3	0	0	0 0
Biosynex visual reading	3	1	0	2	0	0	0 0
Cybow visual reading	1	0	0	0	1	0	0 0
Dirui H-800	1	0	0	0	1	0	0 0
Erba Lachema Uro-dipcheck 240 E	1	0	0	1	0	0	0 0
Erba Lachema Laura	2	0	1	1	0	0	0 0
Erba Lachema Laura Smart	2	0	1	1	0	0	0 0
Iris Diagnostics iChem 100	1	0	0	1	0	0	0 0
Macherey-Nagel Uryxxon	1	0	0	1	0	0	0 0
Macherey-Nagel visual reading	3	1	0	2	0	0	0 1
Roche Urisys 1100	12	0	1	3	8	0	0 0
Roche Urisys 1800/Cobas u411	17	0	0	1	14	2	0 0
Roche Urisys 2400/Cobas u601	5	0	0	1	4	0	0 0
Roche visual reading	18	1	5	12	0	0	0 2
Siemens Clinitek Advantus	53	0	13	35	5	0	0 2
Siemens Clinitek Novus	2	0	0	0	2	0	0 0
Siemens Clinitek Status	69	0	25	38	6	0	0 0
Siemens Clinitek Status +	268	0	80	127	61	0	0 2
Siemens Clinitek 50	3	0	1	2	0	0	0 0
Siemens Clinitek 500	3	0	0	2	1	0	0 0
Siemens visual reading	37	1	7	16	12	1	0 0
Sysmex UC-1000	2	0	0	2	0	0	0 0
Sysmex UC-3500	5	0	1	4	0	0	0 0
Urit Medical Electronic URIT-500B and C	1	0	1	0	0	0	0 0
Yeongdong Uriscan Super	7	1	5	1	0	0	0 0
Yeongdong Uriscan-Pro	7	0	4	2	1	0	0 0
77 Elektronika LabUMat	4	0	0	0	3	1	0 0
Total	537	5	146	260	122	4	7

S001|U-Nitrite

Methodics name	Total	positive	negative	Strip expired
Acon Mission U500	1	1		0 0
Acon Visual reading	1	1		0 0
Acro Biotech visual reading	1	1		0 0
Arkray Aution Max	1	1		0 0
Arkray visual reading	1	1		0 0
BioMaxima BM URI 500	3	2		1 0
Biosynex visual reading	6	6		0 0
Cybow visual reading	1	1		0 0
Dirui H-800	1	1		0 0
Erba Lachema Uro-dipcheck 240 E	1	1		0 0
Erba Lachema Laura	2	2		0 0
Erba Lachema Laura Smart	2	2		0 0
Human visual reading	3	3		0 0
Iris Diagnostics iChem 100	1	1		0 0
Macherey-Nagel Uryxxon	1	1		0 0
Macherey-Nagel visual reading	7	7		0 1
Roche Urisys 1100	12	12		0 0
Roche Urisys 1800/Cobas u411	17	17		0 0
Roche Urisys 2400/Cobas u601	5	5		0 0
Roche visual reading	34	33		1 2
Siemens Clinitek Advantus	53	53		0 2
Siemens Clinitek Novus	2	2		0 0
Siemens Clinitek Status	69	69		0 0
Siemens Clinitek Status +	268	268		0 2
Siemens Clinitek 50	3	2		1 0
Siemens Clinitek 500	3	3		0 0
Siemens visual reading	44	44		0 0
Sysmex UC-1000	2	2		0 0
Sysmex UC-3500	5	5		0 0
Urit Medical Electronic URIT-500B and C	1	1		0 0
Yeongdong Uriscan Super	7	7		0 0
Yeongdong Uriscan-Pro	7	6		1 0
77 Elektronika LabUMat	4	4		0 0
Total	569	565		4 7

S001|U-Protein

Methodics name	Total	- neg, trace	1+	2+	3+	≥ 4+	Strip expired
Acon Mission U500	1	1	0	0	0	0	0
Acon Visual reading	1	1	0	0	0	0	0
Acro Biotech visual reading	1	0	1	0	0	0	0
Arkray Aution Max	1	0	1	0	0	0	0
Arkray visual reading	1	1	0	0	0	0	0
BioMaxima BM URI 500	3	3	0	0	0	0	0
Biosynex visual reading	5	3	2	0	0	0	0
Cybow visual reading	1	1	0	0	0	0	0
Dirui H-800	1	0	1	0	0	0	0
Erba Lachema Uro-dipcheck 240 E	1	0	1	0	0	0	0
Erba Lachema Laura	2	2	0	0	0	0	0
Erba Lachema Laura Smart	2	2	0	0	0	0	0
Iris Diagnostics iChem 100	1	1	0	0	0	0	0
Macherey-Nagel Uryxxon	1	0	1	0	0	0	0
Macherey-Nagel visual reading	3	2	1	0	0	0	1
Roche Urisys 1100	12	3	9	0	0	0	0
Roche Urisys 1800/Cobas u411	17	1	14	2	0	0	0
Roche Urisys 2400/Cobas u601	5	1	4	0	0	0	0
Roche visual reading	17	0	16	1	0	0	2
Siemens Clinitek Advantus	53	34	19	0	0	0	2
Siemens Clinitek Novus	2	0	2	0	0	0	0
Siemens Clinitek Status	69	0	66	3	0	0	0
Siemens Clinitek Status +	268	1	250	17	0	0	2
Siemens Clinitek 50	2	0	2	0	0	0	0
Siemens Clinitek 500	3	2	1	0	0	0	0
Siemens visual reading	38	12	24	2	0	0	0
Sysmex UC-1000	2	0	2	0	0	0	0
Sysmex UC-3500	5	0	5	0	0	0	0
Urit Medical Electronic URIT-500B and C	1	1	0	0	0	0	0
Yeongdong Uriscan Super	7	6	1	0	0	0	0
Yeongdong Uriscan-Pro	7	5	2	0	0	0	0
77 Elektronika LabUMat	4	3	1	0	0	0	0
Total	537	86	426	25	0	0	7

S001|U-pH

Methodics name	Total	5,0	5,5	6,0	6,5	7,0	7,5	8,0	8,5	9,0	Strip expired
Acon Mission U500	1	0	0	0	0	1	0	0	0	0	0
Acon Visual reading	1	0	0	0	0	0	0	1	0	0	0
Acro Biotech visual reading	1	0	0	0	0	0	1	0	0	0	0
Arkray Aution Max	1	0	0	0	0	0	1	0	0	0	0
Arkray visual reading	1	0	0	0	0	1	0	0	0	0	0
BioMaxima BM URI 500	3	0	0	0	0	3	0	0	0	0	0
Biosynex visual reading	7	0	0	0	0	3	0	4	0	0	0
Cybow visual reading	1	0	0	0	0	0	0	1	0	0	0
Dirui H-800	1	0	0	0	0	0	1	0	0	0	0
Erba Lachema Uro-dipcheck 240 E	1	0	0	0	0	1	0	0	0	0	0
Erba Lachema Laura	2	0	0	0	0	0	0	2	0	0	0
Erba Lachema Laura Smart	2	0	0	0	0	0	1	1	0	0	0
Human visual reading	3	0	0	0	0	3	0	0	0	0	0
Iris Diagnostics iChem 100	1	0	0	0	0	0	0	1	0	0	0
Macherey-Nagel Uryxxon	1	0	0	0	0	0	0	1	0	0	0
Macherey-Nagel visual reading	7	0	0	0	0	4	2	1	0	0	1
Roche Urisys 1100	12	0	0	0	0	0	0	12	0	0	0
Roche Urisys 1800/Cobas u411	17	0	0	0	0	1	0	16	0	0	0
Roche Urisys 2400/Cobas u601	5	0	0	0	0	0	0	5	0	0	0
Roche visual reading	31	0	0	0	0	4	4	23	0	0	2
Siemens Clinitek Advantus	53	0	0	0	0	3	30	20	0	0	2
Siemens Clinitek Novus	2	0	0	0	0	0	1	1	0	0	0
Siemens Clinitek Status	68	0	0	0	0	6	50	10	2	0	0
Siemens Clinitek Status +	267	0	0	0	1	17	232	9	8	0	2
Siemens Clinitek 50	3	0	0	0	0	2	1	0	0	0	0
Siemens Clinitek 500	3	0	0	0	0	0	1	2	0	0	0
Siemens visual reading	44	0	0	4	1	2	23	14	0	0	0
Sysmex UC-1000	2	0	0	0	0	0	2	0	0	0	0
Sysmex UC-3500	5	0	0	0	0	0	5	0	0	0	0
Urit Medical Electronic URIT-500B and C	1	0	0	0	0	0	1	0	0	0	0
Yeongdong Uriscan Super	7	0	0	0	0	5	2	0	0	0	0
Yeongdong Uriscan-Pro	7	0	0	0	0	3	3	0	1	0	0
77 Elektronika LabUMat	4	0	0	0	0	3	1	0	0	0	0
Total	565	0	0	4	2	62	362	124	11	0	7

S001|U-Relative density

Methodics name	Total	1,000	1,005	1,010	1,015	1,020	1,025	1,030	Strip expired
Acon Mission U500	1	0	0	0	1	0	0	0	0
Acon Visual reading	1	0	0	1	0	0	0	0	0
Acro Biotech visual reading	1	0	1	0	0	0	0	0	0
Arkray Aution Max	1	0	1	0	0	0	0	0	0
Arkray visual reading	1	0	0	1	0	0	0	0	0
BioMaxima BM URI 500	3	0	0	0	3	0	0	0	0
Biosynex visual reading	6	0	2	2	2	0	0	0	0
Cybow visual reading	1	0	0	1	0	0	0	0	0
Dirui H-800	1	0	1	0	0	0	0	0	0
Erba Lachema Uro-dipcheck 240 E	1	1	0	0	0	0	0	0	0
Erba Lachema Laura	2	0	1	1	0	0	0	0	0
Erba Lachema Laura Smart	2	0	1	0	1	0	0	0	0
Human visual reading	3	0	0	3	0	0	0	0	0
Iris Diagnostics iChem 100	1	0	1	0	0	0	0	0	0
Macherey-Nagel Uryxxon	1	0	1	0	0	0	0	0	0
Macherey-Nagel visual reading	5	0	3	1	1	0	0	0	1
Roche Urisys 1100	11	0	3	8	0	0	0	0	0
Roche Urisys 1800/Cobas u411	17	0	1	5	10	1	0	0	0
Roche Urisys 2400/Cobas u601	5	0	2	3	0	0	0	0	0
Roche visual reading	19	5	9	5	0	0	0	0	0
Siemens Clinitek Advantus	53	0	1	32	20	0	0	0	2
Siemens Clinitek Novus	2	0	1	1	0	0	0	0	0
Siemens Clinitek Status	67	0	0	1	53	12	1	0	0
Siemens Clinitek Status +	266	0	0	11	210	42	2	1	2
Siemens Clinitek 50	3	0	0	1	2	0	0	0	0
Siemens Clinitek 500	3	0	0	1	2	0	0	0	0
Siemens visual reading	41	1	17	12	8	3	0	0	0
Sysmex UC-1000	2	0	0	0	1	1	0	0	0
Sysmex UC-3500	5	0	5	0	0	0	0	0	0
Urit Medical Electronic URIT-500B and C	1	0	1	0	0	0	0	0	0
Yeongdong Uriscan Super	7	0	5	2	0	0	0	0	0
Yeongdong Uriscan-Pro	7	0	2	4	1	0	0	0	0
77 Elektronika LabUMat	4	0	2	2	0	0	0	0	0
Total	544	7	61	98	315	59	3	1	5

S001|U-Bilirubin

Methodics name	Total	negative	1+	2+	3+	≥ 4+	Strip expired
Biosynex visual reading	3	2	1	0	0	0	0 0
Dirui H-800	1	0	0	1	0	0	0 0
Human visual reading	3	0	3	0	0	0	0 0
Macherey-Nagel visual reading	3	0	2	1	0	0	0 0
Roche visual reading	5	1	0	1	3	0	0 0
Siemens Clinitek Status +	1	0	0	0	1	0	0 0
Sysmex UC-1000	1	0	0	0	1	0	0 0
Sysmex UC-3500	2	0	0	0	2	0	0 0
Yeongdong Uriscan-Pro	1	0	1	0	0	0	0 0
77 Elektronika LabUMat	3	0	3	0	0	0	0 0
Total	23	3	10	3	7	0	0

S001|U-Urobilinogen

Methodics name	Total	negative	1+	2+	3+	≥ 4+	Strip expired
Biosynex visual reading	3	2	1	0	0	0	0 0
Dirui H-800	1	1	0	0	0	0	0 0
Human visual reading	3	3	0	0	0	0	0 0
Macherey-Nagel visual reading	3	3	0	0	0	0	0 0
Roche visual reading	4	4	0	0	0	0	0 0
Siemens Clinitek Status +	1	1	0	0	0	0	0 0
Sysmex UC-1000	1	1	0	0	0	0	0 0
Sysmex UC-3500	2	2	0	0	0	0	0 0
Yeongdong Uriscan-Pro	1	1	0	0	0	0	0 0
77 Elektronika LabUMat	3	3	0	0	0	0	0 0
Total	22	21	1	0	0	0	0

Report info**Participants**

501 participants from 12 countries.

Report info

The expected result is the most frequent category in the reports (mode or top of the distribution) for each method group. An acceptable outcome is that the result differs from the expected value maximally by one category (not applicable to nitrite which has only one category for positivity in most reflectance readers and in visual reading).

In the report the most frequent result class (mode) is marked using green color representing the expected value although there are only one or few results in group.

Your own result should be compared to others using the same method. In case the client's result is the only one in the method group or there are only a few results in the group the result can be compared to results of other groups of the same manufacturer. This is because the scales of positivity vary between the manufacturers.

For information on report interpretation and performance evaluation, please see the "EOAS Interpretation guidelines" in LabScala User instructions (top right corner ?Help link).

External Quality Assessment Scheme

Urine strip test A Round 1, 2023

Specimens

Sample S001 (LQ744423011) was lyophilized human urine.

Based on the previous tests and the results of this round, the sample was homogeneous, stable and suitable for the external quality assessment scheme. The materials were sent without temperature control packaging.

Report info

Please see the description of the data analysis on the last page of the laboratory-specific table. It is important to read the Final report first, because it contains important information of the samples and results in each round.

Comments – Expert

In the sample S001 the most frequent result classes (modes) for pH and specific gravity were 7.5 and 1.015, respectively. The distribution of results for pH was again narrow, since 97% of the results were between 7.0 - 8.0. Apart from the test for urobilinogen, the expected results were positive. Modes for all tests' results were as follows: RBC 2+, GLUC 1+, KETO 2+, WBC 2+, NIT +, PROT 1+, BIL 1+ and UBG neg.

Urine strip test requires precise processes, including the correct storage of the strips (temperature, humidity, time). The strips should not be used after their expiry date. If the strips have been bent or dampened, they are not to be used either. Sample container, sample handling, storage (temperature, timing) and mixing before the analysis play a major role in the success of the total process. The dipping and drying the strips, and the correct timing and interpretation of the results are to be done according to the instructions given by the strip manufacturer. The process of the reporting the results needs to be such that the correct result is reported to the correct analyte to the correct patient.

A result deviating considerably from the results of the majority of the same method group is an indicator to investigate the test procedure. A result deviating in two consecutive rounds is a sign for the need to go through the whole analyzing process. In this round, several results reported from the same participants differ from the other results in the same method group. This also is an indicator to investigate the test procedure.

Annex 1

Instructions how to proceed if your result is out of the acceptable limits.

End of report

2023-02-27

FINAL REPORT

Product no. 3100-3102

Samples sent	2023-01-30
Round closed	2023-02-17
Final report	2023-02-27

Request for correction

Typing errors in laboratory's result forms are on laboratory's responsibility. Labquality accepts responsibility only for result processing. Requests must be notified by writing within three weeks from the date of this letter.

Authorized by

EQA Coordinator
Anna-Riitta Vanhanen
anna-riitta.vanhanen@labquality.fi

Expert

PhD, Production Control Manager
Eeva Toivari
Fimlab Laboratories

Labquality Oy

Kumpulantie 15
FI-00520 HELSINKI
Finland

Tel. + 358 9 8566 8200
Fax + 358 9 8566 8280

info@labquality.fi
www.labquality.com



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Annex 1 (POCT schemes): Result outside acceptable limits

- Please read the meter and strip manual.
- Check that the strips / reagents included in the device are correct and the device is in working order.
- Check your measurement technique.
- Check and replace strips / reagents that are outdated, wetted, or stored, for example, at the wrong temperature.
- The device's own or unit's internal controls should be used regularly as instructed by the meter manufacturer / laboratory.
- Contact the person in charge at the support laboratory or the device manufacturer.