Verein für medizinische Qualitätskontrolle
Association pour le contrôle de Qualité médical
Associazione per il controllo di qualità medico

Instructions and patient details survey 2024-2

General information

A list of all analyses with the corresponding samples can be found on www.MQZH.ch under «Offer».

For each proficiency test, please check that the device details on the record sheet match your device.
Changes can be written on the record sheet. If you are submitting the results via the online system, you can enter any changes in the "Comments" field.

Sample handling
Unless otherwise stated, our proficiency test samples can be used as patient material. Refrigerated samples must be removed from the refrigerator about 15-30 minutes (exception blood gas ampoules 5 hrs) before analysis to equilibrate them at room temperature. Ready-to-use samples only need to be mixed afterwards. Our samples are partly of human origin and are handled and disposed of with the same care as patient samples.

Sample analysis
- The samples must be analyzed using the same method that you use for the patient samples.
- Multiple determinations are only allowed if this is also done for patient samples.
- Samples must not be forwarded to other laboratories.

Results submission
- If the results are not submitted via the online system, the protocol sheet must be signed by the responsible laboratory manager/physician
- The results may only be discussed with colleagues from other laboratories once the proficiency test has been completed.

Administration
- Please do not forget to keep a copy of your results until you have received and checked the evaluation.
- We advise you to keep the samples until you have received the results. In the event of unsatisfactory results, you can re-analyse your samples.

Information about the specific samples

B1 Strep A Test

You will receive sample B1 as a liquid (it simulates the patient's nose, throat, etc.). Be sure to use the swab included in your rapid test pack and dip it into the sample B01. Then process the swab as if it were a patient sample.

B9 Bacteriology

Open the screw cap and disinfect the grey rubber. Reconstitute the samples with 0.5 ml 0.9% NaCl by injecting the liquid through the grey rubber using a sterile syringe.

B10 Gram stain

Material: Joint aspiration
Diagnose: Joint aspiration, infected hip prosthesis

B31 SARS CoV-2 , NAT

Sample B31 can be diluted 1:2 with NaCl if the amount of sample material is insufficient.

B33 SARS CoV-2 Antigen Rapid Test

You will receive the B33 sample as a liquid (it simulates the patient's nose). Be sure to use the swab, which is included in your rapid test kit. You can find detailed instructions on www.MQZH.ch

G1, G3, G4, G18-G22, Coagulation

Pipette 1 ml distilled water into the vial, close and mix gently. Allow to stand for 30 minutes at room temperature. Mix again carefully by hand before measurement. Measure within 2 hours.

H4 Blood parasites

Possible codes:

100	No parasites found
101	Plasmodium
102	Plasmodium falciparum
103	Plasmodium malariae
104	Plasmodium vivax
105	Plasmodium ovale
106	Trypanosoma sp.
107	Mikrofilaria
199	Others:

H6, H7 Bloodcount 5-Part / Retikulocytes

These proficiency test samples are analysed in the same way as patient samples. Please measure the samples immediately after receipt**!**

K1 Clinical chemistry

Estimated glomerular filtration rate (eGFR)

In order to assess a patient's renal function, plasma creatinine should be measured and the the eGFR should be calculated. In the protocol sheet, all participants who measure creatinine will find an additional entry for the eGFR. If you do not yet work with the eGFR, you will find further you will find further information and a calculator at www.mqzh.ch.
Patient details: 70-year-old man, skin color white, (weight 80 kg)

K3 HbA1c

Participants with Afinion: Please perform the determination as soon as possible (fresh whole blood)

K10 Anemia

If you measure holotranscobalamin with the Cobas system, please enter the value in the corresponding method.
If you are using the **biotin interference suppressed** method, write your value in: “Cobas biotin suppressed”.
If you are using the **non-suppressed** method, write your value in: “Cobas”.

K29 Calprotectine, K51 Pancreatic elastase

Samples from these interlaboratory tests can be treated as liquid stool samples.
If it is not possible to measure the sample on the day of arrival, please store them at -20°C.

K38 Immunfixation

Specimen description: Patient: m, 54, with Restless Legs Syndrom (RLS)

Codes for immunofixation interpretation: (Please specify the appropriate code.)

Codes	**Description** **In the immunofixation appears a:**
1	monoclonal component type IgA Kappa
2	monoclonal component type IgA Lambda
3	monoclonal component type IgG Kappa
4	monoclonal component type IgG Lambda
5	monoclonal component type IgM Kappa
6	monoclonal component type IgM Lambda
7	Oligoclonal immunoglobulin responses indicate limited heterogeneity of synthesized immunoglobulins
8	Inconspicuous findings, no further investigations
9	In the event of a suspected artifact or unclear findings, possibly further clarification. Please send us your image with the result

K39 Folate in Erythrocytes

The hematocrit of the sample is indicated on the label. Please process the sample immediately after receipt. If you cannot analyze the sample immediately, please store it at -20°.

K48 Creatinin WB

These proficiency test samples are measured like patient samples. Please measure the samples immediately after receipt**!**

S1 Fecal occult blood

The simulated stool sample is ready for use and used exactly like a patient sample.

U2, urine test strips

Please record your result as for patient samples.. (Submission in numbers or +++ is possible))

The following device-specific instructions can be found at www.MQZH.ch under "Instructions"»:

Afias
Afinion
ABL90 Flex+
ABL800 Flex Serie
ABL80 Flex CO-OX
AQT90
Uricult (B2)
Covid Test rapid (B33)
Microbiology NAT (B11-B36)
Helicobater-Urease-Test
Cholestec LDX
Coagu Chek XS/Pro II
Cobas b101
Differential blood smear
EPOC
Eurolyser Cube
Immunfixation
Fuji Dri-chem
Hemorchron jr
LumiraDX
Hemoscreen
Hematology blood gases
Erythrocyte sedimentation
ImmunoCap rapid
StatSensor
Piston pipette
Micro INR
Microsemi
Mythic
Xprecia
Zybio Z3 CRP
Triage
Virus genome detection (V2-V6)

H3 Differential Blood Smear

Patient data

	Age	Gender	Hb	Hk	Lc	Tc	Ec
2024-2 H3A	42	m	70 g/l	0.204 l/l	5.84 G/l	34 G/l	2.07 T/l
2024-2 H3B	50	m	154 g/l	0.461 l/l	5.15 G/l	205 G/l	5.09 T/l

Instructions for filling out the H3 Protokoll
If your smear is defective or bad, we will gladly send you another one.

Leukocyte differentiation
For the differentiation of rod and segment nucleated neutrophil granulocytes you have to work according to the thread rule.

Neutrophils (rod + seg), lymphocytes/plasma cells and white precursors (promyelocytes + myelocytes + metamyelocytes) are automatically added together for QUALAB assessment.

For example, if you cannot distinguish the white precursors, it is possible to sum them up with a curly bracket.
IMPORTANT: Make sure that the sum adds up to 100%, otherwise you will get a "not fulfilled".

Morphological data
After you have assessed the morphology of the leukocytes, platelets and erythrocytes, you must select the most important features of this blood count for the report. (max. 5 codes)
To do this, enter the codes below under "Findings":

General Codes

29 Normal findings (do not add any other codes)
30 Pathologic findings, refer to expert
31 Pathologic findings, not refered to expert
(Note: Even if you write code 30 on a blood count, the leukocyte differentiation must be done in any case).

Leukocyte assessment

01 Hypersegmentation
02 Left shift
03 Pelger-Hüet Abnormaly
04 Toxic signs of neutrophils (toxic granulation, basophilic strippling or vacuoles)
05 Atypical lymphocytes presumably reactive
06 Atypical lymphocytes probably neoplastic
07 Auer rods
08 other:

Thrombocyte assessment

09 Giant platelet
10 Platelet aggregates
11 other:

Erythrocyte assessment

12 Microcyten
13 Macrocytes
14 Hypochromasia
15 Polychromasia
16 Poikilocytosis
17 Elliptocytes/Ovalocytes
18 Stomatocyosis
19 Targetcells
20 Fragmentocytes
21 Spherocytes/Microspherocytes
22 Rouleaux
23 Erythrocyte agglutination
24 Howell-Jolly bodies
25 Basophilic strippling
26 Tear drops
27 other:
28 Parasites (please specifiy)

To meet the requirements, you must specify at least one code for both preparations, and differentiate the leucocytes.

U4 Urine sediment

Sample description: m, 51

Urin-strip

		Ref. / Norm.
Glucose/Glucose/Glucosio	**Neg**	**neg**
Protein/Protéine/Proteina	**++**	**neg**
Bilirubin/Bilirubine/Bilirubina	**Neg**	**neg**
Urobilinogen/Urobilinogène/Urobilinogeno	**Norm**	**norm**
pH	**6.5**	**5.0-7.5**
Dichte/Densité/Peso spec.	**1.017**	**1.020-1.030**
Erythrozyten/ Erythrocytes/Eritrociti	**+**	**neg**
Ketonkörper / Corps cétoniques/Chetoni	**Neg**	**neg**
Nitrit/Nitrite/Nitriti	**Neg**	**neg**
Leukozyten/Leucocytes/Leucociti	**+++**	**neg**

Codes

10	Erythrozyten normal	Erythrocytes normaux	Eritrociti normale	Normal erythrocytes
11	Erythrozyten dysmorph	Erythrocytes dysmorphes	Eritrociti dismorfici	Dysmorphic erythrocytes
12	Akanthozyten	Acanthocytes	Acantociti	Acanthocytes
20	Leukozyten	Leucocytes	Leucociti	Leucocytes
30	Plattenepithelien	Epithélium pavimenteux	Epiteli piatti	Squamous Epithelia
31	Epithelien (andere als Platten)	Epithélium (autres que pavimenteux)	Epiteli (altri tipi di epiteli oltre a quelli piatti)	Epithelia (other than squamous-)
32	Geschwänzte Epithelien	Epithélium caudé	Epiteli caudati	Caudate Epithelia
33	Rundepithelien	Epithélium rond	Epiteli rotondo	Round Epithelia
34	Übergangsepithelien	Epithélium transitionnel	Epiteli di transizione	Transitional Epithelia
35	Nierenepithelien	Epithélium rénal	Epiteli renali	Renal Tubular Epithelial Cells
36	Decoy-Zellen	Cellule decoy	Cellula decoy	Decoy Cells
40	Spermatozoen	Spermatozoïdes	Spermatozoi	Spermatozoa
50	Hyaliner Zylinder	Cylindre hyalin	Cilindri ialini	Hyaline Casts
51	Granulierter Zylinder	Cylindre granuleux	Cilindri granulosi	Granular Casts
52	Wachszylinder	Cylindre cireux	Cilindri cerei	Waxy Casts
53	Erythrozyten-Zylinder	Cylindre érythrocytaire	Cilindri eritrocitori	Erythrocyte Casts
54	Leukozyten-Zylinder	Cylindre leucocytaire	Cilindri leucocitori	Leucocyte Casts
55	Epithelzylinder	Cylindre épithélial	Cilindri epiteliali	Epithelia Cast
56	Pseudozylinder	Pseudo-cylindre	Pseudocilindri	Pseudocasts
57	Lipide	Lipides	Lipidi	Lipids
60	Bakterien	Bactéries	Batteri	Bacteria
61	Pilze	Champignons (levure)	Funghi (lievito)	Yeast/Fungi
62	Trichomonaden	Trichomonas	Tricomonadi	Trichomonas
70	Kristalle und Salze	Cristaux et sels	Cristalli e sali	Crystals and Salts
80	Haare	Poils	Cappelli	Hair
81	Schleim	Mucus	Mucosa	Mucus
82	Verunreinigungen	Impuretés	Impurità	Impurity
83	Luftblasen	Bulle d'air	bolla d'aria	Air bubble
99	Unbekannt	Inconnu	Sconosciuto	Unknown