



## Instructions for immunohematology H16 and AKID H17

### Immunohematology H16

<b>MQ 202x-y H16 Donor A</b>  Ec  <small>www.mqzh.ch</small>	<b>MQ 202x-y H16 Donor B</b>  Ec  <small>www.mqzh.ch</small>	<b>MQ 202x-y H16 Patient C</b>  Ec  <small>www.mqzh.ch</small>	<b>MQ 202x-y H16 Patient C</b>  Serum  <small>www.mqzh.ch</small>
--	--	--	---

The H16 EQA consists of 4 samples:

- **3 samples with erythrocyte suspensions** for ABO blood group, RhD, Rh phenotype, Kell Antigen, DAT and isoagglutinin determination:
  - 2 donor samples: **Donor A**, **Donor B**
  - 1 patient sample : **Patient C**
- **1 sample with patient serum** for antibody screening, antibody identification, and compatibility testing

#### Sample pre-treatment:

Centrifuge the samples according to your laboratory's internal guidelines. The samples can now be treated as patient samples.

#### Procedure:

- Determine the ABO blood group, RhD, Rh phenotype and isoagglutinins from the tubes containing the erythrocyte suspensions (**Donor A Ec**, **Donor B Ec**, **Patient C Ec**).  
 Isoagglutinins are determined from the supernatant of the cells in the three tubes; they cannot be determined from the serum tube. They are always clearly identifiable. If this is not the case, the analysis was performed using the wrong tube.
- Perform an antibody test using the patient's serum (**Patient C Serum**) and antibody specification, if this is done in your laboratory.
- Perform a compatibility test of the patient's serum (**Patient C**) with the erythrocytes of the donors (**Donor A** and **Donor B**), if this is practised in your laboratory. This should be done regardless of ABO blood groups and Rhesus configuration. No autocontrol should be performed.

#### Results:

Enter the results online in your participant area. You can also fill in the protocol sheet and send it by e-mail to [info@mqzh.ch](mailto:info@mqzh.ch).

Determination	Possible results			
	A	B	AB	O
Blood group	A	B	AB	O
RhD	negative	positive	Dweak	Dvariant
Rh-Phenotype C/c Antigen	C/C	C/c	c/c	
Rh-Phenotype E/e Antigen	E/E	E/e	e/e	
Kell Antigen	not detectable	detectable	unclear	
DAT (direct Coombs)	negative	positive	unclear	
Antibody screening test	negative	positive		
Compatibility test	negative	(positive)	positive	



**Antibody specification:**

Please enter the corresponding code

Code	Designation	System
500	Anti-D (RH1)	Rhesus
501	Anti-C (RH2)	Rhesus
502	Anti-E (RH3)	Rhesus
503	Anti-c (RH4)	Rhesus
504	Anti-e (RH5)	Rhesus
505	Anti-f (RH6)	Rhesus
506	Anti-Cw (RH8)	Rhesus
507	Anti-K (KEL1)	Kell
508	Anti-k (KEL2)	Kell
509	Anti-Kp(a) (KEL3)	Kell
510	Anti-Kp(b) (KEL4)	Kell
511	Anti-Fy(a) (FY1)	Duffy
512	Anti-Fy(b) (FY2)	Duffy
515	Anti-Jk(a) (JK1)	Kidd
516	Anti-Jk(b) (JK2)	Kidd
520	Anti-M (MNS1)	MNS
521	Anti-N (MNS2)	MNS
522	Anti-S (MNS3)	MNS
523	Anti-s (MNS4)	MNS
525	Anti-Le(a) (LE1)	Lewis
526	Anti-Le(b) (LE2)	Lewis
530	Anti-Lu(a) (LU1)	Lutheran
531	Anti-Lu(b) (LU2)	Lutheran
540	Anti-Vel (VEL1)	Vel
541	Anti-P (GLOB1)	Globoside
542	Anti-H (H1)	H
543	Anti-Co(a) (CO1)	Colton
544	Anti-Co(b) (CO2)	Colton
545	Anti-Wr(a) (DI3)	Diego
546	Anti-Sd(a) (SID1)	Sid
547	Anti-Vw (MNS9)	MNS
548	Anti-Mg (MNS11)	MNS
549	Anti-Yt(a) (YT1)	Cartwright
550	Anti-Yt(b) (YT2)	Cartwright
551	Anti-Kn(a) (KN1)	Knops
552	Anti-McC(a) (KN3)	Knops
553	Anti-Yk(a) (KN5)	Knops
554	Anti-Cs(a) (CTL2.3)	Cost
555	Anti-Ch(a) (CH/RG1)	Chido/Rodgers
556	Anti-Rg (CH/RG11)	Chido/Rodgers
557	Anti-JMH (JMH1)	JMH
558	Anti-P1 (P1PK1)	P1PK
559	Anti-Xg(a) (XG1)	Xg



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

## **AKID H17**

In the second quarter, you will receive a blood sample for antibody testing. This is a human serum containing several antibodies that react in the **indirect antiglobulin test (IAT)**

Please use your laboratory's standard methods to determine the results.

As no erythrocyte suspension is included, you will find the relevant antigen pattern in the current instructions for the interlaboratory test and enclosed with the sample

### **Results submission:**

When submitting the antibodies, please use the same codes as for sample H16.