

Blood Grouping

- **Blood group**

Material: 3 ml EDTA blood, 1 ml serum

Preanalytics: labeled with name, first name and date of birth! **Fresh samples recommended.**

Stability: 2 days at 2 to 8°C (samples which cannot be tested immediately)

TAT: same day, FML

Method: Agglutination

Note: Blood group testing includes ABO-system on erythrocytes (antigen), serum antibodies and Rhesus factor. According to the Germany transfusion law, antibody screening tests needs to be included. On request, Rh-formula can be additional determined

- **Rhesus factor**

Material: 3 ml EDTA blood

Preanalytics: labeled with name, first name and date of birth! **Fresh samples recommended.**

Stability: 2 days at 2 to 8°C (samples which cannot be tested immediately)

TAT: same day, FML

Method: Agglutination

- **Antibody screening test (Indirect Coombs Test)**

General:

Antibody screening is part of blood group testing. The most frequent significant antibodies (Morbus haemolyticus neonatorum, MHN) in pregnancy are Rhesus antibodies (D > E > c > C > e), Kell (K) antibodies and in rare cases antibodies of the ABO system.

Indication: Precautions in pregnancy (1st examination: at the beginning of the pregnancy, 2nd examination: 24-27th pregnancy week); evaluation of a positive indirect Coombs test, anti-D control after anti-D prophylaxis (maximum of vaccination titer is expected after approx. 3 days).

Material: 3 ml EDTA blood, 1 ml serum

Stability: 48 hours at 2 to 8°C (samples which cannot be tested immediately)

Preanalytics: labeled with name, first name and date of birth! **Fresh samples recommended.**

TAT: same day, FML

Method: indirect Coombs test, if necessary antibody differentiation and titer indication

Units: titer

Ref.Range: negative

Morbus haemolyticus neonatorum (MNH)

System	Antigen			
		IgG	IgM	MNH
Rhesus	D	mostly	some	severe
	Cw	mostly		severe
	E	mostly	some	severe
	C	mostly		severe
	e	mostly		severe
Kell	K	mostly	some	severe
	k	mostly		mild
Duffy	Fya	mostly		mild
	Fyb	mostly		
Kidd	Jka	mostly	some	mild
Kidd	Jkb	mostly	some	mild
Lutheran	Lua	rare	some	mild
	Lub	some	some	mild
ABO	A	some	most	mild
	B	some	most	mild
	AB	some	most	mild

System	Antigen			
		IgG	IgM	MNH
MNS	M	rare	most	mild
	N	very rare	most	moderate
	S	some	some	severe
	s	mostly	rare	severe
P	P1		most	
Lewis	Lea		most	not known
	Leb		most	not known
I	I	very rare	most	
	I	rare	most	

- **Blood group genotyping (PCR)**

Material: 5 ml EDTA blood

TAT: 2 weeks*

Method: PCR

For complete list of laboratory test offered at Freiburg Medical Laboratory, please visit
<http://www.fml-dubai.com/parameter-listings/>