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Instruction for use  Use by professionals only  Tests per ml: max. 25 with drop size 40µl when using  separate volumetric pipettes.	<b>C €</b> <sub>0483</sub>
Revision:	29/07-2019
Product-Name:	Product-Code:
AHG	AHG-green-Ka
polyspezrabbit-	
Humanglobulin - Coombsserum	
All described test methods are only valid for manual applications as recommended in this instruction. The user must determine their suitability for use in other techniques (automates, gel-cards, others) according to recognized techniques in individual responsibility.  Only for in-vitro diagnostic laboratory use. Store at + 2 - 8 °C when not in use.	

Product description:	The reagent is produced from rabbit. The rabbit serum pool is absorbed to ensure that no antibodies against other
	human antigens are present. These sera are adjusted with bovine albumin in isotonic saline.
Indirect anti-human globulin	This method is a two-step test for detection of incomplete antibodies and demonstrations of
test:	Antigens with sera which can only be used in coombs test.
	1. Place 1 drop of the patient serum to be tested or one drop of the specific blood typing test serum into a tube.
	2. Add 1 drop of a 2-3% erythrocytes suspension in 0,9% isotonic saline solution or 22% BSA. (test erythrocytes or donor erythrocytes
	for antigen testing)
	3. Incubate 15-60 minutes at 37° C and test for agglutination.
	4. Wash erythrocytes 3 times in isotonic saline and discard last supernatant.
	5. Add to sediment 2 drops of anti human globulin serum and centrifuge for one minute at 400 xg (1500 UpM) or at a suitable other
	rpm for an appropriate time.
	6. Shake gently and check for agglutination.
	7. The addition of Liss or Bovine Albumin allows reduction of the incubation time and the reaction may be enhanced.
Direct anti-human globulin	This is a one step test for demonstration of erythrocyte-bound antibodies (for example in haemolytic syndrome in the
test:	new born, haemolytic anaemia)
	1. Wash erythrocytes to be tested tree times in isotonic saline and discard the supplement.
	2. Prepare a 2-3% erythrocyte suspension in isotonic saline solution.
	3. Place 1 drop of erythrocyte suspension into a tube.
	4. Add 1-2 drops of coombs serum and mix.
	5. Centrifuge for one minute at 400 xg (1500 UpM) or other time with adequate rpm.
	6. Shake gently and check for agglutination.
Cross match:	The cross match is an antibody diagnostic test to reveal confusion and detect irregular antibodies.
	The cross match is used in three forms:
	Mayor test: Recipient serum + donor erythrocytes
	Minor test: Donor serum + recipients erythrocytes
	Controls: Recipient serum + recipient erythrocytes
	All three are performed as outlined below in three-step tube test:
Tube Centrifuge test – Three	First step: Saline milieu at room temperature
step-test:	1. For each vial of an antibody detection test mark one test tube and additional one for control of autoantibodies.
·	2. Place 1 drop of the serum under examination into each test tube.
	3. Add 1 drop of test-erythrocytes suspension to the appropriate labelled test tubes and 1 drop of the one washed patients cells
	(3-5%) into the control tube and mix well.
	4. Incubate for five minutes, centrifuge for one minute at 400 xg or other time with adequate rpm, shake tubes gently and read.
	County Albumin military & CTR C
	Second step: Albumin milieu at 37° C  1. Pipette 1 drop of 30% bovine albumin in each tube and mix well.
	Incubate the tests for 30 - 60 minutes at 37° C
	3. Centrifuge for 1 minute at 400 xg or other time with adequate rpm, shake tubes gently and read.
	5. Centinger of 1 militie at 400 kg of other time with adequate (pm), shake tubes gently and read.
	Third step: Coombstest
	1. Wash the erythrocytes 2 or 3 times in saline.
	2. Add 1 drop of Anti-Human globulin serum and mix well.
	3. Centrifuge for 1 minute at 400 xg or other time with adequate rpm, shake tubes gently and read.
	If the results of the Coombstest are doubtful or negative run a check with a coombs-control.
Performance data:	The reagent shows equal or better performance criteria as comparable reagents on the market. It fulfills the
	requirements of the specifications of CE-Immundiagnostika GmbH.
Other Tets methods:	As alternative method it is recommended to run with Albu-Liss (modified Liss)
Other rets methods.	If there is suspicion of cold antibodies, it is recommended to incubate in a saline milieu at 4° C for 30 minutes.
	in there is suspicion of cold antibodies, it is recommended to incubate in a saline finited at 4 °C for 30 minutes.
	Consequence No Acid (x 0.1%)
	Conservation: Na-Azid (< 0,1%)
	Shelf-life: to be used until expiry date.