

OPERATIVE PROCEDURES TEST OVERVIEW

WARNINGS:

- Always wear talc free latex gloves
- Use only alcohol (e.g. denatured ethyl alcohol) to disinfect the finger tip
- Wipe off any excess of blood around capillary by wiping the latter on the patient's finger
- Make always sure that the capillary is in one of the four corners of the cuvette

TEST		VOLUME	TEST PROCEDURE
Hemoglobin Haematocrit Erythrocytes	HB	10µl	1. Perform blanking by inserting the cuvette WITHOUT THE BLOOD SAMPLE into the reading cell 2. Withdraw the cuvette and add the blood sample collected 3. Close the cuvette and rock gently until the capillary has been completely emptied 4. Insert the cuvette into the same reading cell used for blanking N.B.: POSITION THE CAPILLARY IN THE CORNER OF THE CUVETTE
	HTC	10µl	
	RBC	5µl	
Total cholesterol	CHOL	10µl	1. Add the blood sample collected to the cuvette, close the cuvette and rock gently until the capillary has been completely emptied 2. Insert the cuvette into the reading cell to perform blanking N.B.: POSITION THE CAPILLARY IN THE CORNER OF THE CUVETTE 3. Remove the cuvette and add two drops of the enzyme, close the cuvette and gently rock 4. Insert the cuvette into the same reading cell used for blanking N.B.: POSITION THE CAPILLARY IN THE CORNER OF THE CUVETTE
Glucose	GLU	10µl	
Lactic acid	LACT	5µl	
Triglycerides	TRIG	10µl	1. Add the blood sample collected to the cuvette 2. Fix the plunger cap containing the singledose enzyme on the cuvette paying attention NOT to press the red plunger 3. Rock gently until the capillary has been completely emptied 4. Insert the cuvette into the reading cell to perform blanking N.B.: POSITION THE CAPILLARY IN THE CORNER OF THE CUVETTE 5. Remove the cuvette and press the plunger to release the enzyme into the solution 6. Gently rock and insert the cuvette into the same reading cell used for blanking N.B.: POSITION THE CAPILLARY IN THE CORNER OF THE CUVETTE
CHOL ♦ GLU (BI-test)	C+G	10µl	1. Add the blood sample collected to the cuvette, close the cuvette and rock gently until the capillary has been completely emptied 2. Insert the cuvette into the reading cell to perform blanking N.B.: POSITION THE CAPILLARY IN THE CORNER OF THE CUVETTE 3. Remove the cuvette, add two drops of the enzyme 1, close the cuvette and gently rock 4. Insert the cuvette into the same reading cell used for blanking N.B.: POSITION THE CAPILLARY IN THE CORNER OF THE CUVETTE 5. Remove the cuvette, add two drops of the enzyme 2, close the cuvette and gently rock 6. Insert the cuvette into the same reading cell used for the first reading N.B.: POSITION THE CAPILLARY IN THE CORNER OF THE CUVETTE

Cholesterol HDL	HDL	30µl	<ol style="list-style-type: none"> 1. SET THE CALIBRATION COEFFICIENTS CAL1/CAL2 FOUND ON THE REAGENT PACKAGE 2. Add the blood sample collected to the cuvette 3. Close the cuvette and rock gently until the capillary has been completely emptied. 4. Insert the cuvette into the reading cell <p>N.B.: POSITION THE CAPILLARY IN THE CORNER OF THE CUVETTE</p> <ol style="list-style-type: none"> 5. Remove the cuvette and pour into it the content of the R2 conical tube 6. Close the cuvette, gently rock and insert into the same reading cell used for blanking <p>N.B.: POSITION THE CAPILLARY IN THE CORNER OF THE CUVETTE</p>
Free Oxygen Radicals Test	FORT	20µl	<ol style="list-style-type: none"> 1. Add the blood sample collected into the FORT R2 reagent (conical tube) 2. Rock gently until the capillary has been completely emptied 3. Pour the content of the conical tube into the FORT R1 reagent (cuvette) and rock gently 4. Centrifuge for 1 minute <p>N.B.: ALWAYS BALANCE THE CENTRIFUGE USING THE APPROPRIATE BALANCING CUVETTE</p> <ol style="list-style-type: none"> 5. Insert the cuvette into the reading cell. <p>N.B.: POSITION THE CAPILLARY IN THE CORNER OF THE CUVETTE</p>
Free Oxygen Radicals Defence	FORD	50µl	<ol style="list-style-type: none"> 1. Pour the content of the S2 reagent (BLUE tube) into the C1 cuvette 2. Add 50µl of the S3 reagent using the yellow pipette ; close the cuvette and rock gently 3. Add the blood sample into the S1 reagent (WHITE tube) and gently rock 4. Centrifuge for 1 minute to obtain the supernatant <p>N.B.: ALWAYS BALANCE THE CENTRIFUGE USING THE APPROPRIATE BALANCING TUBE</p> <ol style="list-style-type: none"> 5. Remove the cuvette and add 100µl (2x 50 µl using the yellow pipette) of the supernatant 6. Insert the cuvette into the reading cell <p>N.B.: POSITION THE CAPILLARY IN THE CORNER OF THE CUVETTE</p>
Uric Acid	URIC	50µl (plastic capillary)	<ol style="list-style-type: none"> 1. Add two drops of the enzyme into the cuvette, close the cuvette and rock gently 2. Insert the cuvette into the reading cell 3. Remove the cuvette and add the blood sample collected 4. Close the cuvette, gently rock and centrifuge for 2 minutes <p>N.B.: ALWAYS BALANCE THE CENTRIFUGE USING THE APPROPRIATE BALANCING CUVETTE</p> <ol style="list-style-type: none"> 5. Insert the cuvette into the reading cell
Glycated Hemoglobin	HbA1c	10µl	<ol style="list-style-type: none"> 1. SET THE CALIBRATION COEFFICIENTS CAL1/CAL2 FOUND ON THE REAGENT PACKAGE 2. Add the blood sample into the BLUE conical tube containing the R1 reagent and rock gently until the capillary has been completely emptied 3. Allow to stand for 2 minutes at room temperature (20-25°C/68-77°F) until the lysis process is completed 4. Add 10 µl of haemolysate to the R2 cuvette 5. Close the cuvette and rock gently 6. Insert the cuvette into the reading cell <p>N.B.: POSITION THE CAPILLARY IN THE CORNER OF THE CUVETTE</p> <ol style="list-style-type: none"> 7. Remove the cuvette and pour the R3 content into the cuvette 8. Close the cuvette and gently rock 10. Insert the cuvette into the same reading cell <p>N.B.: POSITION THE CAPILLARY IN THE CORNER OF THE CUVETTE</p>
Alanine Aminotransferase	ALT-GPT	50µl	<ol style="list-style-type: none"> 1. SET THE CALIBRATION COEFFICIENTS CAL1/CAL2 FOUND ON THE REAGENT PACKAGE 2. Add the blood sample into the corresponding R1 conical tube 3. Add 2 drops of the R2 reagent 4. Rock gently until the capillary has been completely emptied 5. Centrifuge for 2 minutes to obtain the supernatant <p>N.B.: ALWAYS BALANCE THE CENTRIFUGE USING THE APPROPRIATE BALANCING TUBE</p> <ol style="list-style-type: none"> 6. Pour the supernatant into an empty cuvette and close using the cap supplied 7. Insert the cuvette into the reading cell
Aspartate Aminotransferase	AST -GOT		

Multiple test	VOLUME	Procedure
REDOX INDEX	Calculated	Preparation
FORD FORT	50µl 20µl	<ul style="list-style-type: none"> FORD: White and blue conical tubes, FORD cuvette FORT: White conical tube and FORT cuvette 1 x 50 µl capillary and 1 x 20 µl capillary Yellow pipette , 2 x yellow tips
		<ol style="list-style-type: none"> FORD: Pour the content of the S2 (BLUE conical tube) into the C1 cuvette and add 50µl of the S3 reagent using the yellow pipette Close the FORD cuvette and rock gently until the reagent has been completely dissolved. Place the cuvette into the reading cell In the meantime: collect the blood samples (50 µl – FORD test and 20 µl – FORT test) and add them into the corresponding conical tubes Close the FORT and FORD conical tubes and gently rock until the capillaries have been completely emptied Pour the content of the FORT conical tube into the FORT R1 cuvette and rock gently. Centrifuge for 1 minute FORT cuvette and FORD conical tube N.B.: ALWAYS BALANCE THE CENTRIFUGE USING THE APPROPRIATE BALANCING CUVETTE (FORT) AND BALANCING TUBE (FORD) Insert the FORT cuvette into the reading cell N.B.: POSITION THE CAPILLARY IN THE CORNER OF THE CUVETTE Remove the FORD cuvette and add 100 µl of the supernatant (2x 50 µl using the yellow pipette) Insert the FORD cuvette into the same reading cell N.B.: POSITION THE CAPILLARY IN THE CORNER OF THE CUVETTE
ALT/AST	Calculated	Preparation:
ALT AST	50µl 50µl	<p><u>SET THE AST AND ALT CALIBRATION COEFFICIENTS CAL1/CAL2 FOUND ON THE REAGENT PACKAGE</u></p> <p>Prepare:</p> <ul style="list-style-type: none"> Conical tubes of AST (blue) and ALT (white) 2 x 50 µl capillaries AST semi-micro cuvette and ALT semi-micro cuvette AST R2 reagent and ALT R2 reagent
		<ol style="list-style-type: none"> Collect two 50 µl blood samples and add them into the corresponding conical tubes. Rock gently until the capillaries have been completely emptied AST: Add 2 drops of the R2 AST reagent and rock gently AST: Centrifuge the conical tube for 2 minutes to obtain the supernatant N.B.: ALWAYS BALANCE THE CENTRIFUGE USING THE APPROPRIATE BALANCING TUBE AST: Pour the supernatant into the empty AST cuvette and close it using the cap supplied Insert the cuvette into the reading cell Once the AST reading is over : Add 2 drops of the R2 ALT reagent into the ALT conical tube and rock gently ALT: Centrifuge the conical tube for 2 minutes to obtain the supernatant N.B.: ALWAYS BALANCE THE CENTRIFUGE USING THE APPROPRIATE BALANCING TUBE ALT: Pour the supernatant into an empty ALT cuvette and close the cuvette using the cap supplied Insert the cuvette into the reading cell