Skyla Solution Quick Guide

Sample Collection and Handling

1. Correct sample processing is the most important step in obtaining accurate results.
2. Sample guidelines:
   a. Use 22-gauge or larger size needle to prevent haemolysis
   b. Immediately transfer blood into a Lithium Heparin anti-coagulated (**green top**) collection tube.
      i. Remove stopper from tube and needle from syringe. Hold the top of the syringe over tube and gently dispense blood into tube. Fill to tube fill line, or at least ½ tube.
      ii. Invert tube 8 to 10 times to properly mix blood and anticoagulant.
      iii. Centrifuge sample in order to collect plasma sample.
      iv. Once collected testing must be conducted within 2 hours (at room temperature)

Running a Chemistry Panel Test

1. Take out the Disc from foil pouch, being careful not to touch the Optical Area or Barcode Ring (wearing gloves is optimal).
2. Remove Aluminium foil strip along the arrow at a 45-degree angle.

3. Use 220µL 2-step pipette to draw up plasma sample.
   a. Press plunger down to **1st stop** and withdraw sample slowly and steadily.
   b. Slowly inject sample (220µL over 3 seconds) into the sample port by pushing the plunger to the **1st Stop**, then **2nd Stop**.
   NOTE: Before lifting your thumb, remove pipette tip from sample port to avoid redrawing sample out of the disc.
   c. Make sure all sample in tip has been dispensed completely into the disc.

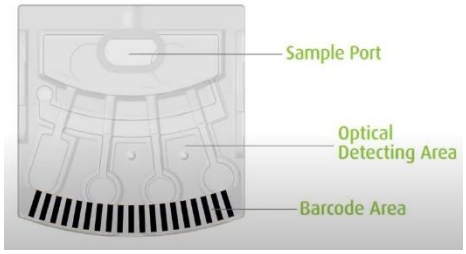
4. Choose an available Chemistry Drawer, press [**Start**].

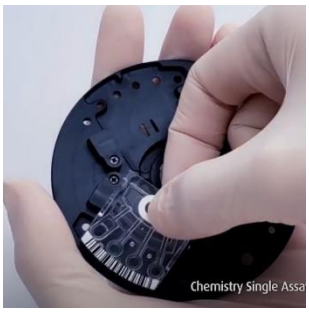
5. Fill in patient information, then press to open drawer. Place disc flush in drawer.
   Note: If disc is not loaded correctly, this can lead to a drawer jam and damage to the analyser.

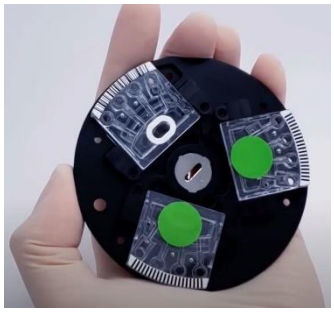
6. To begin running another test at the same time, Press , then [**Start**] on another available Chemistry Drawer

Running a Chemistry Single/Dual Assay Test

1. Take out the Single Assay cartridge(s) from foil pouch (Avoid touching optical detecting area).
2. Snap the cartridge(s) into the Metal Carrier
   *Align the groove below the barcode of the cartridge to the raised bump on the outer edge of the metal carrier, then press the cartridge into its slot.
   *If only 1 or 2 cartridges are being used, fill the remaining slots with Balancer cartridge(s).

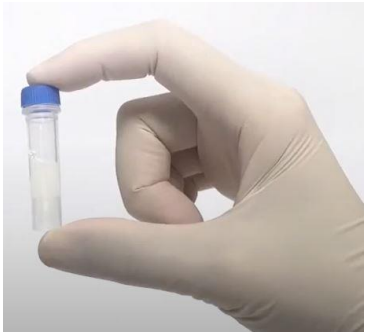






3. Centrifuge Diluent tube for 10 sec before use.
4. Use 1-step 50µL pipette to draw 50µL plasma/serum for diluent tube
   *Lean the tip on inner wall of diluent tube without touching diluent
   *Inject VERY SLOWLY 50µL plasma/serum into the tube
   *Make sure all specimen in tip has been drawn by inner wall

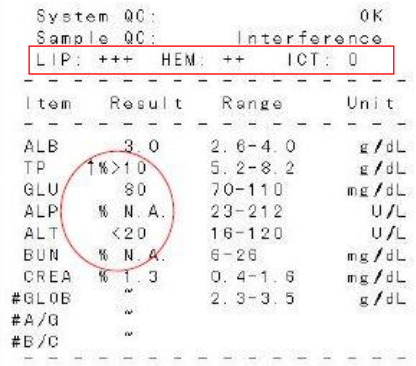
5. Close the cap, invert the tube 8-10 times to mix well



6. With a new tip, draw the diluted specimen and inject 2 shots of 50µL into cartridge (100µL)
7. Choose an available Chemistry Drawer, press [**Start**].
8. Fill in patient information, then press open drawer icon . Place disc flush in drawer.
   Note: If disc is not loaded correctly, this can lead to a drawer jam and damage to the analyser.
9. To begin running another test at the same time, Press , then [**Start**] on another available Chemistry Drawer

Sample Interferences

1. There are 3 major kinds of interference that can be present in a patient sample
   - Lipaemia
   - Haemaolysis
   - Icterus
2. The Skyla Solution can detect each interference status to give a score/rating
   Rating: **0** (acceptable), **+** (medium), **++** (medium severe), **+++** (severe)
   Score: **0 - 999** (will only show upon severe interference and some items with % as warning)
3. An analyte with a **%** symbol means the result is possibly over the TEa (Total Error Allowable).
4. A result with **N.A.** or **~** means there is severe interference. These symbols are shown to avoid incorrect results displaying.
   a. Calculated analytes such as Globulin cannot be calculated with an unknown value
      i. E.g. #GLOB=TP-ALB. If TP is N.A. and ALB=3, GLOB cannot be calculated and will show **~**.
5. A result with **>** or **<** means the result is beyond the analyser dynamic range.



```
System QC:                    OK
Sample QC:          Interference
LIP: +++   HEM: ++    ICT: 0
- - - - - - - - - - - - - - - -
Item    Result     Range       Unit
- - - - - - - - - - - - - - - -
ALB        3.0     2.6-4.0     g/dL
TP      1%>10      5.2-8.2     g/dL
GLU         80     70-110      mg/dL
ALP     % N.A.     23-212        U/L
ALT        <20     16-120        U/L
BUN     % N.A.     6-26        mg/dL
CREA    % 1.3      0.4-1.6     mg/dL
#GLOB       ~      2.3-3.5     g/dL
#A/G        ~
#B/C        ~
- - - - - - - - - - - - - - - -
```

If you have concerns with a patient result displaying any of the above, please call Vepalabs on 1300 837 252 for assistance.

Demonstrational Videos

Running Chemistry Panel

Running Single/Dual Assay