



## Steps for measuring Calcium

1. The packets DK 107, CA 015, Standard CA ST and LH 075 should be ready to work.
2. Blood withdrawal in heparinized tubes. The blood samples should not be stored more than 24h, otherwise the plasma may be haemolytic.
3. Obtain plasma by using the centrifuge.
4. The obtained plasma may be assigned, freezed and used later for a Calcium serial measurement.
5. Deposit 3 cuvettes in cuvette rack and pipette 1.5 mL colour reagent and buffer solution respectively. **Note : please only use calibrated pipettes – exact volumes guarantee correct values.**
6. The 1. cuvette is for blank. Pipette 50  $\mu$ L CA ST into the 2. cuvette and 50  $\mu$ L sample (plasma) in to the 3. cuvette and mix. The volumes should be exact, please pay special attention at pipetting of standard, it may cause the accuracy of values. Avoid to touch the cuvettes on the measuring zone (2 cm from the bottom).
7. Switch on the photometer, select CA and confirm.
8. Insert blank and remove it after the signal tone.
9. Insert the cuvette with standard, the standard – absorption will be shown in the display and saved.
10. Insert the cuvette with sample, read the result immediately or within 1h.
11. Measure the other samples respectively...
12. CA 015 is based on reliable wet chemical o-CPC-method, which is used in human medicine successfully since a very long time. A quality control measurement with an external control sera or CA QS is recommended.