



Malfunction Coatron A4/A6/A6Plus/5000: Carry Over

Error description:

Instrument measures samples correct at first run, but with each repetitions the clotting-times becomes prolonged.

Possible reasons:

- Reagent sedimentation.
Mostly with PT reagent. Apply a magnetic mixing bar into PT vial.
- Carryover by improper cleaning
Mostly caused by improper XYZ adjustment + expired needle probe (replace every 100.000 tests)
- Imprecise volume in the cuvette
Mostly caused by leaky valve (must be replaced latest after 100.000 tests. See service plan)

Recommended troubleshooting

- (1) Check first for leaky valve.
- (2) Check for correct working clean-position. Is the needle really flushed inside+outside ?
If not, then readjust XYZ
- (3) To exclude failures by adjustments
 - Check cuvette motor adjustment
 - Check XYZ adjustment
- (4) Confirm system performance
 - Run Fib-QC
 - Run PT-QC (new worklist, select mode=QC, but overwrite manually test FIB with PT)
- (5) Watch always carefully, if systems shows a shift X,Y, or Z coordinate
- (6) Further experiments with PT testings

Run all worklists in ECO mode

Remove and store all cuvettes after use for visual check.

Experiment-1:

- a) Remove cuvettes from wheel and reboot instrument (instrument will fill+wash complete pump system and reset XYZ and fresh new cuvette will be used the next worklist)
- b) Run 4xPT
- c) Wait 5min and run 4x PT again
- d) Wait 5min and run 4x PT again, but shake PT-Vial manually short before use

Experiment-2:

- e) Remove cuvettes from wheel and reboot instrument (instrument will fill+wash complete pump system and fresh new cuvette will be used the next worklist)
- f) Run "6" xPT
- g) Wait 5min and run "6" PT again

Results of experiments

- Visual check: Do all cuvettes show same level of volume ?
- Is there a difference between PT vial shaking ?
- Is there a difference between experiment 1 versus 2 ?

Read the service guideline "Malfunction A imprecise results.pfd" for further information.