



OPERATING CHECKLIST: STK ASSAY

Sample mix preparation:

	Checked?
ATP stock solution diluted 25x to 4 mM?	
Lysate thawed on ice?	
Antibodies and sample centrifuged before adding to mix?	
ATP and lysate combined at latest time point possible?	
Amount of protein between 0.1 and 2.0 ug per array?	

Begin of assay:

Selected chips from one production batch? (Example: 631275102)	
Leave chips packaged for 10 min at RT?	
Are reagents from one reagent-kit batch used?	
Prepared the washing buffers (1x PK wash and 1x Ab buffer)?	
Syringe filled, checked and placed in slot 2 of PamStation12?	
Fluid level waste bin less than 40 ml?	
Cover glasses checked and cleaned if necessary?	
Fluid barriers checked and replaced if necessary?	
Are chips placed in same order as they are scanned?	

During assay:

Applied 30 ul of 2% BSA in first load step?	
Applied 40 ul sample mix in second load step?	
Changed syringe 1x PK-wash to 1x Ab buffer after applying sample mix?	
Applied 30 ul detection mix in third load step?	
When applying fluids (2% BSA, Sample mix or detection mix) to chip:	
- Applied fluid in the middle of array (Did not touch array sidewall)?	
- Array surface completely covered by applied fluid?	

End of assay:

Emptied, cleaned and dried syringe?	
Removed used chips from incubator?	
Shutdown and powered off the PamStation12?	