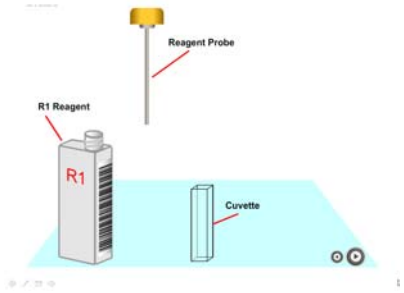
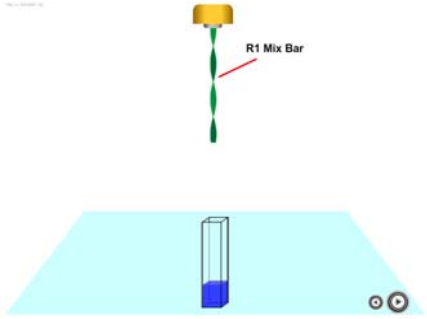
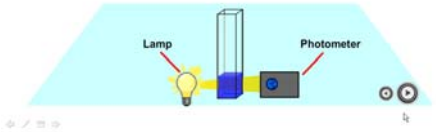
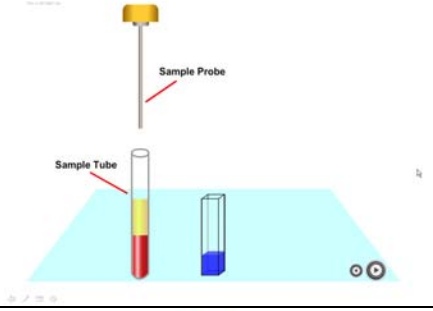
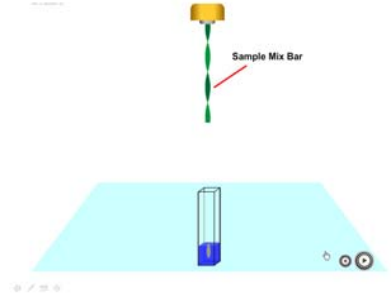
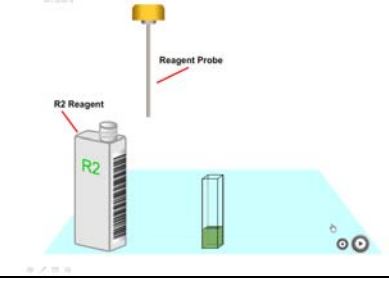
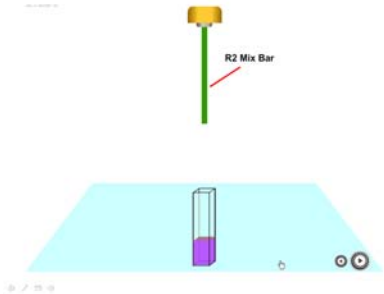
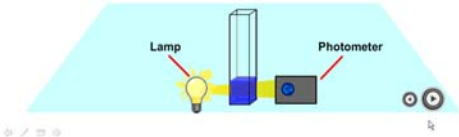
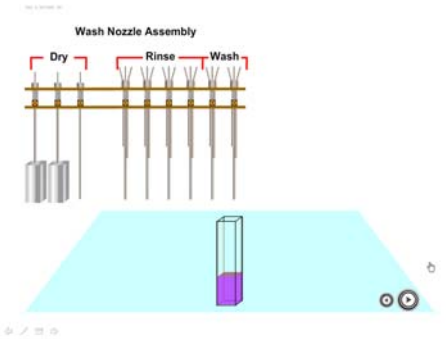
AU680 Sample Processing Overview

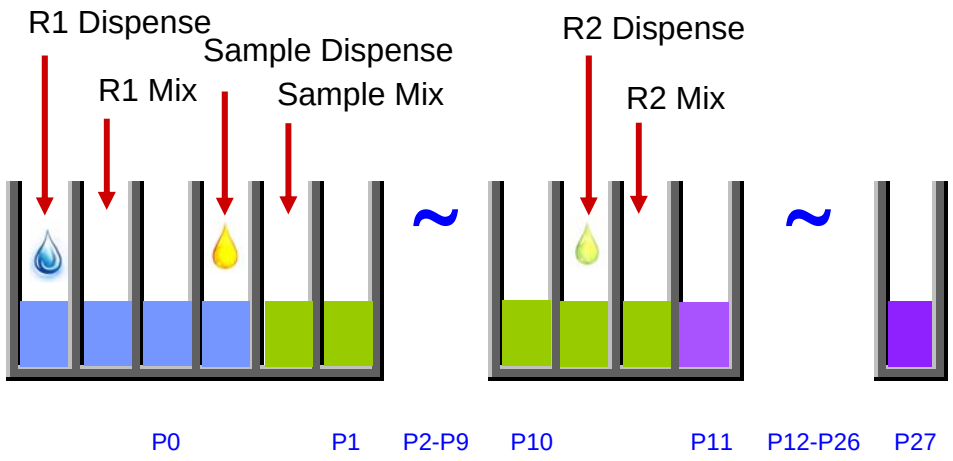
Step	Action	
1	A sample rack is placed on the rack feeder unit by the operator.	
2	The operator presses Start.	
3	The rack is moved to the barcode reader where sample programming is determined.	
4	The rack is moved to the sample aspiration position.	
5	An R1 reagent probe, working with the R1 reagent syringe, delivers R1 reagent into a cuvette.	
6	An R1 mix bar mixes the reagent in the cuvette.	

Step	Action	
7	The photometer starts taking readings.	
8	The sample probe, working with the sample syringe, aspirates and dispenses sample into the cuvette in the cuvette wheel.	
9	A sample mix bar mixes the sample and the reagent. The photometer continues to take readings.	
10	If required, the R2 reagent probe, working with the R2 reagent syringe, delivers the R2 reagent into the cuvette.	

Step	Action	
11	An R2 mix bar mixes the reaction mixture.	
12	The photometer continues to take reaction readings.	
13	The cuvette is washed, rinsed and dried by the wash nozzle probes using water/wash solution.	
14	When the sample is no longer needed the rack is moved to the rack collection area.	

Note: A priority sample may be processed using the STAT table at any time during routine sample processing. This allows the priority sample to be processed before samples in the rack feeder unit.

AU680 Optical Density Read Points*



- R1 Dispensing
- R1 Mixing
- P0 (first cuvette OD read point, R1 reagent only)
- Sample Dispensing
- Sample Mixing
- P1 (OD read point sample + R1 reagent)
- P2-P9 (OD read point intervals, 18 seconds)
- P10 (last OD read of R1 + sample before the addition of R2)
- R2 Dispensing
- R2 Mixing
- P11 (first OD read point with R1 + sample + R2)
- P12-P26
- P27 (final read point)

*All tests performed in a cuvette on the AU680 will have a total of 28 read points taken (represented by P0 through P27 in the diagram above). The readings that will be used in calculating a result are specific to the particular assay.