

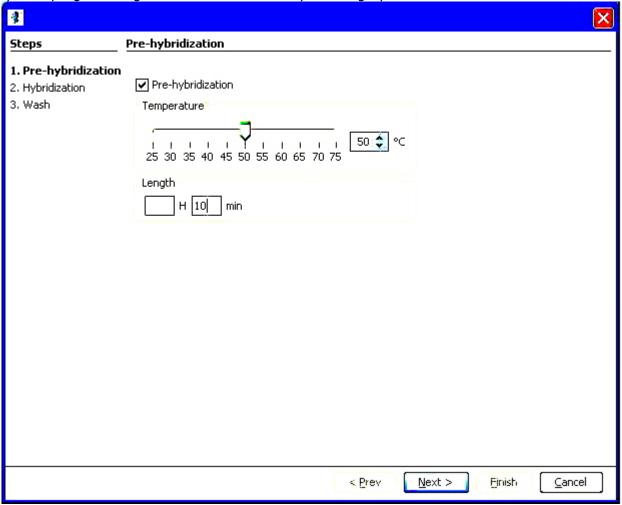


TrayMix[™] S4 Automated Microarray Hybridization Stations Software Manual

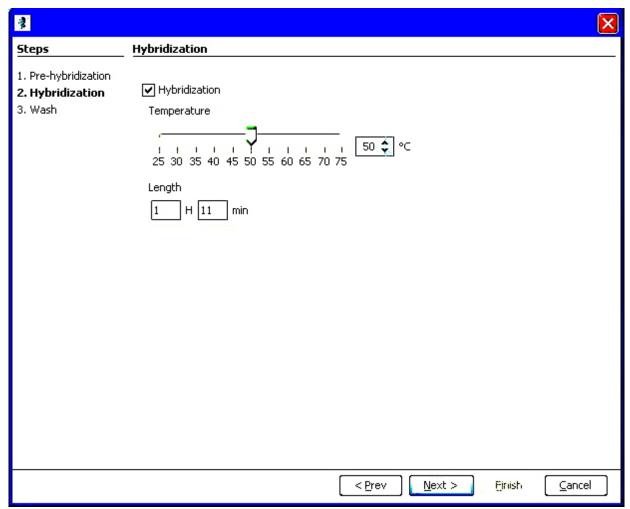


Software

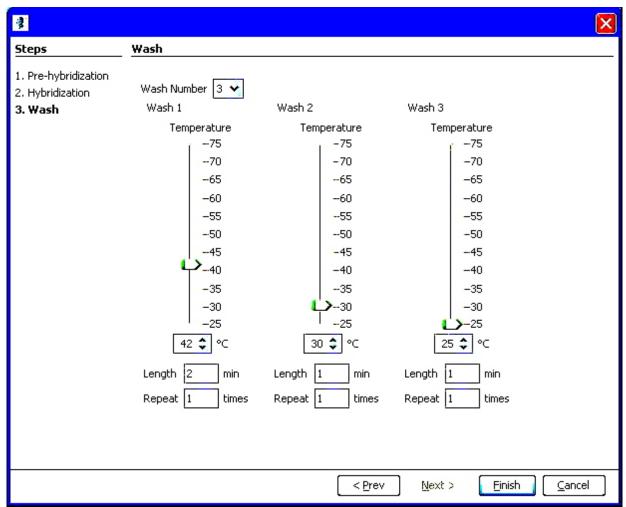
System programming is achieved via the easy to use graphical user interface shown below.



Set Pre-hybridization Time and Temperature.

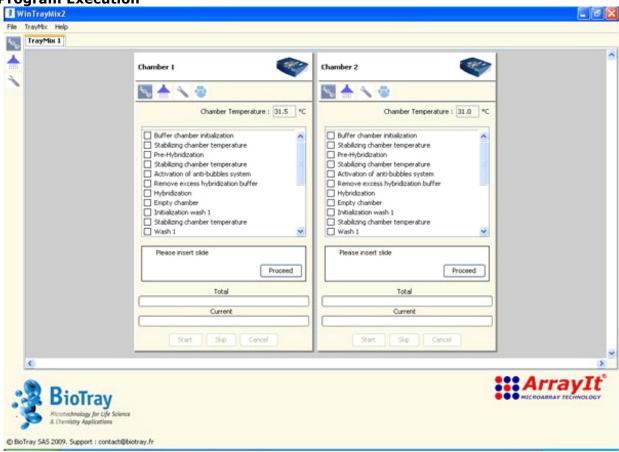


Set Hybridization Time and Temperature.

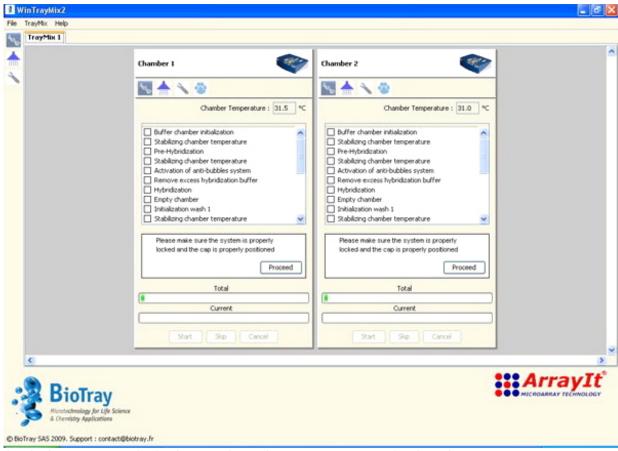


Set Wash Parameters and the Program is ready to run!

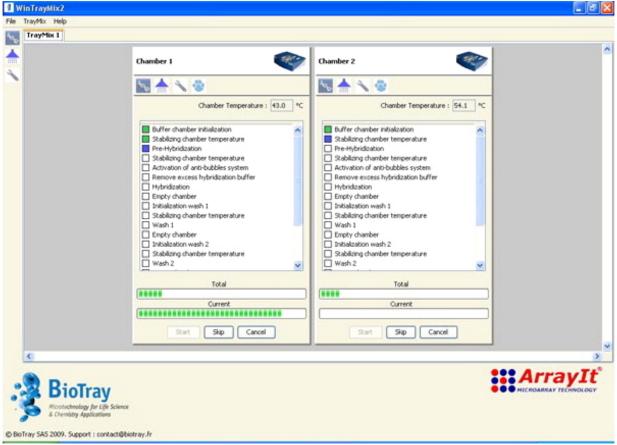
Program Execution



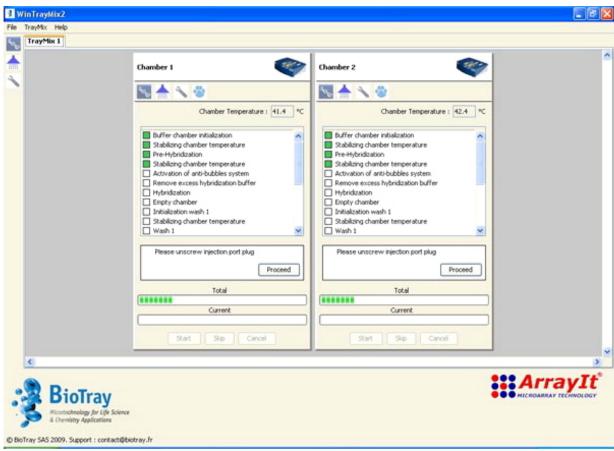
Insert microarray slide, click proceed.



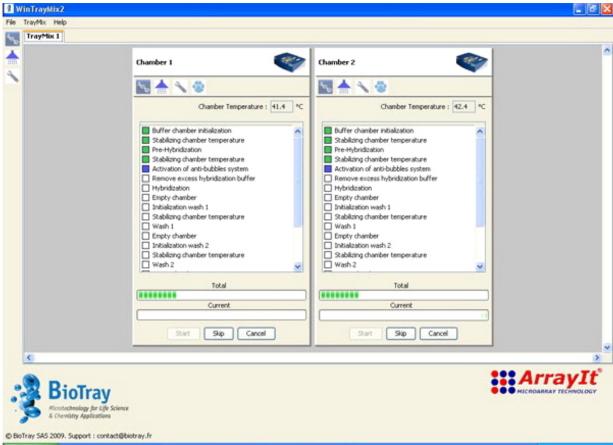
Check the system is locked properly and port cap is properly closed.



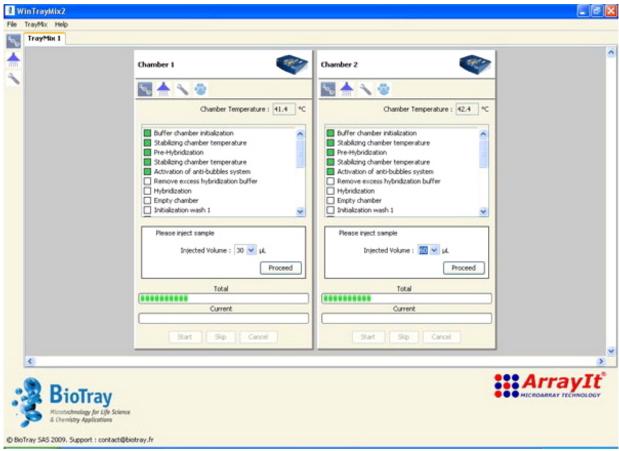
Programmed Pre-hybridization Program Starts, is useful to pre-hybridization to get the microarray at proper temperature and to wet the microarray prior to adding the labeled sample.



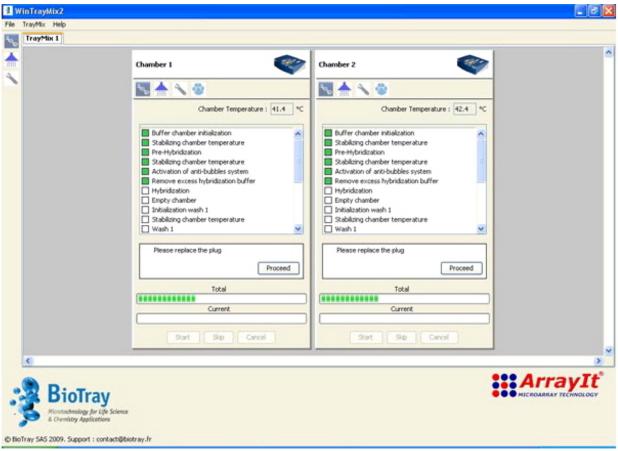
After Pre-hybridization is completed, temperature is stabilized, the next step is to remove air bubbles for the chaotic advection mixing loop.



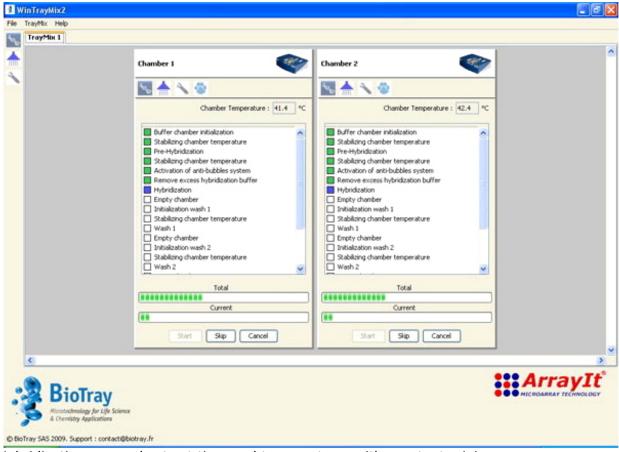
Air bubbles are automatically removed.



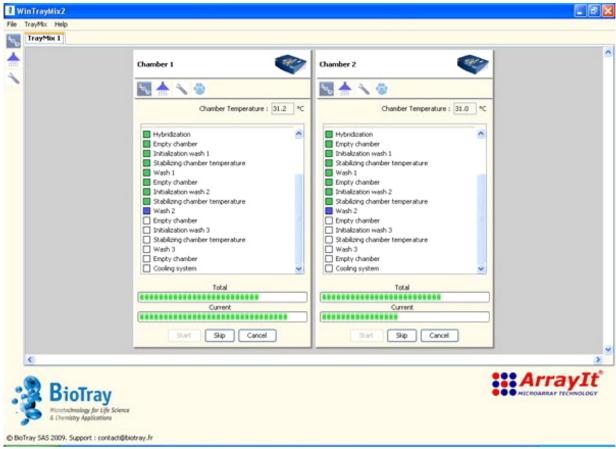
Injecting the sample is done with a volume of 30 μ l or 60 μ l, set volume, inject sample and click Proceed.



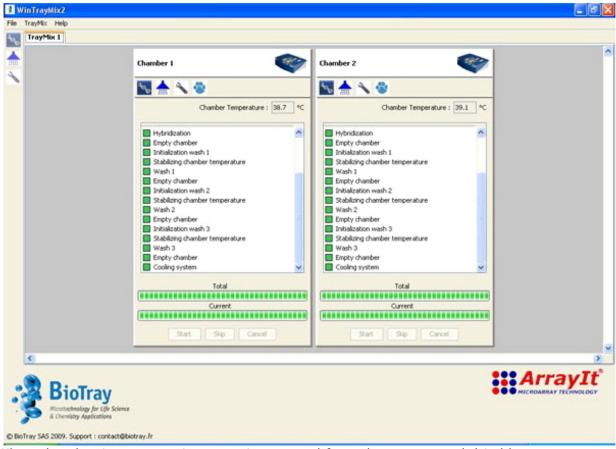
Depending on the volume if injection, the mixing loop automatically compensates for the volume injected for hybridization.



Hybridization proceeds at set time and temperature, with constant mixing.



Wash steps proceed automatically based on set program parameters.



When chamber is empty, microarray is removed from the system and dried by centrifugation in a High-Speed Microarray Centrifuge.



Arrayit TrayMix[™] S4 Microarray Hybridization Station with continuous power supply, BioBlue[™] personal computer, 21" LED display, keyboard, mouse and mouse.