

Protocol for FACS measurement of GFP in E. coli

This protocol is based on work done in the following paper: “Cell population heterogeneity in expression of a gene-switching network with fluorescent markers of different half-lives.” Stephanie Portle, Thomas B. Causey, Kim Wolf, George N. Bennett, Ka-Yiu San, Nikos Mantzaris. *Journal of Biotechnology*, Volume 128, Issue 2, 1 February 2007, Pages 362-375. <http://dx.doi.org/10.1016/j.jbiotec.2006.09.026>

- 1) The desired E. coli sample was washed twice in cold PBS, and 200µL of sample was transferred to a 96 well plate. Triplicate wells were prepared.
- 2) The samples were checked in FACS Caliber with Cellquest software for analysis.
- 3) The following parameters were used for analysis: FL1-Peak-Linear; FL1-Logarithmic; EV-Linear (µm cubed). Between 20,000-50,000 events were collected for each sample.