

Supplementary Information for “CD4 Counting Technologies for HIV Therapy Monitoring in Resource-Poor Settings – State-of-the-Art and Emerging Microtechnologies”

Table S1 – Details of protocol steps for the operation of CD4+ counting POC devices

Instrument	# Steps	Details
BD FACSCalibur	7	Blood collection Vortex and incubate Fixative added and incubate Vortex Transfer sample to instrument Instrument run Read result
BD FACSCount	7	Blood collection Vortex and incubate Fixative added and incubate Vortex Transfer sample to instrument Instrument run Read result
Partec miniPOC	7	Lancet finger Pipette 20µl blood from finger prick Add blood to tube and incubate Add buffer and shake gently Refill syringe Attach to instrument Read result
Alere Pima	4	Lancet finger Apply drops directly to cartridge and close Insert cartridge into analyser Read result
Daktari	4	Lancet finger Apply drops to cartridge Insert cartridge into analyser and start Read result
MBio	5	Lancet finger Apply drops to cartridge Insert cartridge to rack and incubate Remove and insert cartridge to reader Read result
Zyomyx	7	Lancet finger Take blood sample into capillary tube Apply blood to cartridge Place cartridge into mixer and spin Twist top of the cartridge Spin Read result
Omega Visitect	5 / 6	Lancet finger Take blood sample into MicroSafe pipette and incubate Apply sample to Well A and incubate Apply buffer to Well B and incubate (optional) Insert cartridge to instrument Read result