

Miltenyi MACSQuant



General Information

The MACSQuant is a compact bench top flow cytometer with three lasers (405nm-488nm-635nm) that provide the ability to analyze up to 8 parameters (see the below chart).

Also pulse processing (height, width and area) can be measured on all the parameters.

The fluidics can measure at high (100 $\mu\text{l}/\text{min}$), medium (50 $\mu\text{l}/\text{min}$), and low (25 $\mu\text{l}/\text{min}$) flow rates. In addition to this absolute cell counting is possible (volumetric with a syringe pump). There is no need of counting beads.

Besides manual delivering the sample to the MACSQuant for acquisition, multisampling using the MiniSampler can be performed. The MiniSampler can hold tube racks and varying formats of microtiter plates.

Samples are acquired using the MACSQuantify software.

Samples are saved as FCS3.0 files.

Lasers and Configuration

Lasers	Channel	Filter (nm)	Dye or parameter
Violet 405 nm	V1	450/50	CFP, VioBlue
	V2	525/50	Pacific Orange™, VioGreen
Blue 488 nm	B1	525/50	GFP, FITC
	B2	585/40	PE
	B3	655-730	PI, PerCP, PE-Cy™5.5, PerCP-Vio700, PE-Vio615, ECD, PE-CF594, PE/Dazzle™ 594, PE-eFluor® 610
	B4	750 LP	PE-Cy7, PE-Vio770
Red 635 nm	R1	655-730	APC
	R2	750 LP	APC-Cy7, APC-Vio770
Blue 488 nm	FSC	488/10	Size
	SSC	488/10	Granularity

Sample Format

	Sample format
Manual port	5 ml Tubes (FALCON 352052) -1,5ml eppendorf
Chill 5 rack (Using MiniSampler)	24 x 5ml tubes
Chill 96 rack (Using MiniSampler)	96-well microtiter plates