**Instrument Details (Glasgow FACSAria IIU)**

**3.1. Instrument Manufacturer**

BD Biosciences

1030 Eskdale Road, Winnersh Triangle, Wokingham, Berkshire, RG41 5TS

Website: <http://www.bd.com/>

**3.2. Instrument Model**

BD FACSAriaTM Flow Cytometer, Serial number P22300045 Configuration number 25463

**3.3. Software Version**

BD FACSDiva Version 9.0.1 , and Microsoft Windows 10

**3.4. Instrument Configuration and Settings**

3.3.1. Flow Cell and Fluidics: The instrument has not been altered; fixed-alignment cuvette flow cell. 3.3.2. Light Sources: The instrument has not been altered; four-laser base configuration with ACDU:

• 488-nm Coherent Obis solid state laser; 20 mW

• 633-nm JDS Uniphase HeNe air-cooled laser; 20 mW

• 405-nm Point Source Violet solid state laser; 30 mW

* 561-nm Coherent Sapphire solid state laser; 50mW

3.3.3. Excitation Optics Configuration: The instrument has not been altered.

3.3.4. Optical Filters: See figure below.

3.3.5. Optical Detectors: The instrument has not been altered.Photomultiplier tubes, Matsusada Prescision Inc. Osaka Japan. See detector voltages below (User to complete)

3.3.6. Optical Paths: The instrument has not been altered. Detector arrays consist of a BD octagon (405nm laser line) and BD Trigons (633 and 488 nm laser lines). PMTs are arranged as follows:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **LASER** | **PMT** | **Filter** | **LP Mirror** | **Fluorochrome** |
| Blue Trigon | A  C  D | 695/40  530/30  488/10 | 655LP  502LP  None | PerCP-Cy5.5  FITC, GFP, CFSE, AF488  SSC |
| 488nm  >20mW |
| Yellow/Green Octagon |  |  |  |  |
| 561nm  >50mW | A  B  C  D  E | 780/60  710/50  660/20  610/20  585/15 | 735LP  685LP  635LP  600LP  None | PE-Cy7  PE-Cy5.5  PE-Cy5, PI, 7AAD  PE-CF594, mCherry, PE-Dazzle, 7AAD  PE, DSRed, AF546 |
| Red Trigon |  |  |  |  |
| 640nm  >40mW | A  B  C | 780/60  730/45  670/14 | 755LP  690LP  None | APC-Cy7  AF700  APC |
| Violet Octagon |  |  |  |  |
| 405nm  >50mW | A  B  C  D  E  F | 780/60  710/50  660/20  605/20  525/50  450/40 | 750LP  685LP  630LP  595LP  502LP  None | BV785  BV711  BV650  Qdot 605  AmCyan, V500, Live dead aqua  DAPI, V450, Pac Blue, eCFP |