**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 | ACD | 695/40530/30488/10 | 655LP502LPNone | PerCP-Cy5.5FITC, GFP, CFSE, AF488SSC |
| 488nm>20mW |
| Yellow/Green Octagon |  |  |  |  |
| 561nm>50mW | ABCDE | 780/60710/50660/20610/20585/15 | 735LP685LP635LP600LPNone | PE-Cy7PE-Cy5.5PE-Cy5, PI, 7AADPE-CF594, mCherry, PE-Dazzle, 7AADPE, DSRed, AF546 |
| Red Trigon |  |  |  |  |
| 640nm>40mW | ABC | 780/60730/45670/14 | 755LP690LPNone | APC-Cy7AF700APC |
| Violet Octagon |  |  |  |  |
| 405nm>50mW | ABCDEF | 780/60710/50660/20605/20525/50450/40 | 750LP685LP630LP595LP502LPNone | BV785BV711BV650Qdot 605AmCyan, V500, Live dead aquaDAPI, V450, Pac Blue, eCFP |