**Instrument Details (Glasgow LSRII)**

**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 Special Order LSRII Flow Cytometer, Serial Number H48400006, Configuration number 43314

**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:

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

* 633nm Coherent Cube solid state laser; 40mW

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

• 405-nm Coherent Cube solid state laser; 50 mW

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 BD octagons (561 and 488 nm laser lines) and BD Trigons (405 and 640 nm laser lines). PMTs are arranged as follows

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **LASER** | **PMT** | **Filter** | **LP Mirror** | **Fluorochrome** |
| Blue Octagon | A  B  C  D | 695/40  670/14  530/30  488/10 | 655LP  635LP  502LP  None | PerCP-Cy5.5  PerCP, 7AAD  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  670/30 | 755LP  690LP  None | APC-Cy7  AF700  APC |
| Violet Octagon |  |  |  |  |
| 405nm  >50mW | A  B  C | 605/20  520/50  450/50 | 595LP  502LP  none | Qdot605, BV605  AmCyan, V500, Live dead  DAPI, V450, Pac Blue, eCFP, BV421 |