**Instrument Details (Glasgow LSR Fortessa)**

**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 FACSLSR Fortessa Flow Cytometer, Serial number H647800E6071

**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; five-laser base configuration with HTS:

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

• 633-nm Coherent Obis solid state laser; 40 mW

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

* 561-nm Coherent Sapphire solid state laser; 50mW
* 355-nm Coherent Genesis g2; 20mW

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 octagons(488, 561, 405nm laser lines) and BD Trigons (640 and 355 nm laser lines). PMTs are arranged as follows:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **LASER** | **PMT** | **Filter** | **LP Mirror** | **Fluorochrome** |
| Blue Octagon |  |  |  |  |
| A  C  D | 695/40  530/30  488/10 | 655LP  502LP  None | PerCP-Cy5.5  BB515, FITC, GFP, CFSE, AF488, YFP  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, TdTomato |
| Red Trigon |  |  |  |  |
| 640nm  >40mW | A  B  C | 780/60  730/45  670/14 | 750LP  690LP  None | APC-Cy7,efluor780, APC Fire750  AF700  APC, efluor660, AF647 |
| 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  BV 605  BV510, AmCyan, V500, L/D aqua  DAPI, V450, Pac Blue, eCFP, tag2BFP |
| UV Trigon |  |  |  |  |
| 355nm  >50mW | A  B | 740/35  379/28 | 690LP  None | BUV737  BUV395 |