**Instrument Details (Glasgow Celesta)**

**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 CelestaTM Flow Cytometer, Serial number H66034500019

**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; three-laser base configuration:

• 488-nm Bioray solid state laser; 20 mW

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

• 405-nm Bioray 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 a BD octagons (561 and 405 nm laser lines) and a trigon (488nm laser line). PMTs are arranged as follows:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Laser** | **PMT** | **Filter** | **LP Mirror** | **Fluorochrome** |
| Blue Trigon |  |  |  |  |
| 488nm  >20mW | A  C  D | 695/40  530/30  488/10 | 670LP  502LP  None | PerCP-Cy5.5  BB515, FITC, AF488, GFP, YFP  SSC |
| Yellow/ Green Octagon |  |  |  |  |
| 561nm  >50mW | A  B  C  D | 780/60  670/30  610/20  586/15 | 750LP  635LP  600LP  None | PE-Cy7  PE-Cy5, PI, 7AAD  PE-CF594, PE-Dazzle, mCherry  PE, DSRed, TdTomato |
| Violet Octagon |  |  |  |  |
| 405nm  >50mW | A  B  C  D  E  F | 780/60  710/50  670/30  610/20  525/50  450/50 | 750LP  690LP  655LP  595LP  502LP  None | BV785  BV711  BV650  BV605  BV510, V500, L/D Aqua, AmCyan  BV421, V450, PacBlue, eCFP, tag2 BFP |