**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 | ACD | 695/40530/30488/10 | 670LP502LPNone | PerCP-Cy5.5BB515, FITC, AF488, GFP, YFPSSC |
| Yellow/ Green Octagon |  |  |  |  |
| 561nm>50mW | ABCD | 780/60670/30610/20586/15 | 750LP635LP600LPNone | PE-Cy7PE-Cy5, PI, 7AADPE-CF594, PE-Dazzle, mCherryPE, DSRed, TdTomato |
| Violet Octagon |  |  |  |  |
| 405nm>50mW | ABCDEF | 780/60710/50670/30610/20525/50450/50 | 750LP690LP655LP595LP502LPNone | BV785BV711BV650BV605BV510, V500, L/D Aqua, AmCyanBV421, V450, PacBlue, eCFP, tag2 BFP |