

G5v2 Module for the ABI PRISM® 310 Genetic Analyzer

Overview:

The ABI PRISM® 310 Genetic Analyzer collects fluorescence from five non-overlapping regions, referred to as virtual filters, on the CCD camera. Each virtual filter corresponds to a wavelength range that contains, or is close to, the emission maximum of an ABI PRISM dye.

The G5v2 module for the ABI PRISM® 310 Genetic Analyzer provides modified virtual filters that minimize the disparity in the collected fluorescence from each of the fluorophores in Dye Set 33 (DS-33), including 6-FAM™, VIC®, NED™, PET™, and LIZ® dyes. The adjustment of the relative signals of the collected fluorescence improves intercolor balance in DS-33 applications such as:

- AmpFλSTR® Identifiler® PCR Amplification Kit
- AmpFλSTR® SEfiler™ PCR Amplification Kit
- ABI PRISM® Linkage Mapping Set version 2.5

The degree of intercolor balance varies from instrument to instrument and is dependant upon the intercolor balance of sample amplification.

*****IMPORTANT*****

Do not apply the G5v2 matrix file to data analyzed using the G5 module. A matrix file produced using the G5v2 module does not use the same virtual filter settings as a matrix file produced using the G5 module. When using the G5v2 module to collect sample data, use a matrix file created using the G5v2 module.

Minimum software requirements for this module are:

For the Macintosh® Operating System:

ABI PRISM® 310 Data Collection version 2.1
GeneScan® Analysis Software version 3.1

For the Windows NT® Operating System:

ABI PRISM® 310 Data Collection version 3.0.0
GeneScan® Analysis Software version 3.7.1

INSTALLATION PROCEDURE

For the Macintosh® Operating System

Note: To run the 5-dye chemistry on a Macintosh® system, the instrument must be operating with the ABI PRISM® 310 system Data Collection v 2.1 software. Contact your local sales representative if you do not have this version of data collection software.

1. Close all windows and applications.
2. Insert the G5v2 Module Software CD into the computer CD-ROM drive.
3. On the desktop, double-click the CD icon to open the G5v2 Module CD.
4. On the desktop, double-click the hard drive icon.
5. On the hard drive, navigate to the ABI PRISM® 310 folder, then double-click the folder.
6. Drag the **GS STR POP4 (1mL) G5v2** module file from the CD to the Modules folder in the ABI PRISM® 310 folder on the hard drive.
7. Close all windows, then drag the CD icon to the Trash to eject the G5v2 Module CD.

For the Windows NT® Operating System

Note: To run the 5-dye chemistry on a Windows NT® system, the instrument must be operating with the ABI PRISM® 310 system Data Collection v 3.0 software. Contact your local sales representative if you do not have this version of data collection software.

1. Close all windows and applications.
2. Insert the G5v2 Module Software CD into the computer CD-ROM drive.
3. Double-click **My Computer**, then double-click the CD-ROM drive to open the CD.
4. Double-click **My Computer**, then access the D:\ drive (the default location for the data collection software).
5. On the D:\ drive, navigate to the 310 Data Collection Modules folder (default path D:\AppliedBio\310\Modules), then double-click the folder.
6. Drag the **GS STR POP4 (1mL) G5v2.md5** file from the CD to the Modules folder in the 310 Data Collection Modules folder on the hard drive.
7. Close all files, then eject the G5v2 Module CD.