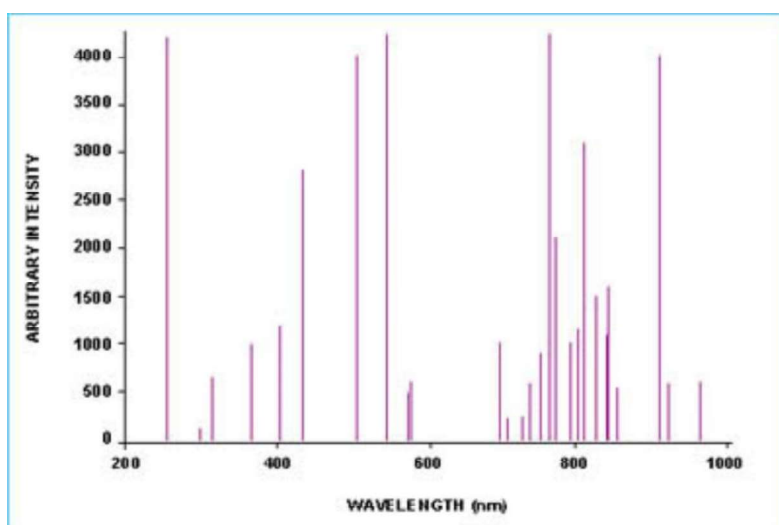


## HG-2 Specifications

The following sections detail the specifications of the HG-2 Mercury Argon Wavelength Calibration Light Source.

### HG Spectral Output



Mercury emission lines are <600 nm. Argon emission lines are >600 nm, and are shown here on an exaggerated amplitude scale.

## Strong Hg Emission Lines by Wavelength (nm)

There are more mercury emission lines than those printed on the label on the HG-2 housing. The label is intended as a quick, convenient reference and does not list every HG emission line that exists. Wavelengths displayed in blue are listed on the calibration lamp's label.

253.652
296.728
302.150
313.155
334.148
365.015

404.656
407.783 *
435.833
546.074 **
576.960
579.066

\* This spectral line is not evident with spectrometers configured with 300 or 600 lines/mm gratings.

\*\* Spectrometers with 1200, 1800, 2400 or 3600 lines/mm gratings have spectral lines evident at 576.96 nm and 579.07 nm.

## Strong Ar Emission Lines by Wavelength (nm)

696.543
706.722
714.704
727.294
738.398
750.387

763.511
772.376
794.818
800.616 *
811.531
826.452

842.465
852.144
866.794
912.297
922.450

\* This spectral line is evident only with spectrometers configured with 1800, 2400, or 3600 lines/mm gratings.