**DIAGNOSTICAL CHECKS AFTER WAVELENGTH CALIBRATION:**

**wavelength check:**

empty hole, 1 nm increments, 5 replicates



528 nm

230 nm

**repeatability of monochromator:** five wavelength scans performed in a row, position of peaks:

 231/527, 230/527, 230/528, 231/528, 230/528

**OD check:** maximum at 298 nm (instead of 302 nm)

1 nm increments, 5 replicates; certified 0.6 photometric check solution (not expired), loaded to completely new cell right before the usage



**stray light check** (9 g/l KCl)**:** absorbance above 1.7 AU, OK



**real protein sample:** maximum at 275 nm (on classical bentchtop spectrophotometer the sample has the absorbtion maximum at 278-280 nm)

