

## Does the UV-vis calibration kit operate in all three ranges UV and visible and visible/NIR – FAQ

### **Not all three...**

The MicroSolv UV-vis Calibration Kit™ contains potassium dichromate for absorbance accuracy, holmium oxide for wavelength accuracy and potassium iodide for stray light measurements. It will not cover the other wavelength ranges and can be used to comply with USP <857> for the ranges where the supplied solutions are applicable.

The chart below is provided for acceptable criteria in the USP <857> as wavelength ranges and procedures for control of wavelengths.

The highlighted area is what chemical and ranges our UV-vis calibration kit covers.

Method	UV (200–400 nm)	Vis (400–780 nm)	Vis/NIR (400–900 nm)
Mercury (Hg) emission lines	Accuracy $\pm 1$ nm Precision $\leq 0.5$ nm	Accuracy $\pm 2$ nm Precision $\leq 0.5$ nm	—
Deuterium (D <sub>2</sub> ) emission lines	—	Accuracy $\pm 2$ nm Precision $\leq 0.5$ nm	—
Cerium oxide solutions	Accuracy $\pm 1$ nm Precision $\leq 0.5$ nm	—	—
Holmium oxide solutions or glasses	Accuracy $\pm 1$ nm Precision $\leq 0.5$ nm	Accuracy $\pm 2$ nm Precision $\leq 0.5$ nm	—
Didymium solutions or glasses	—	—	Accuracy $\pm 2$ nm Precision $\leq 0.5$ nm

Our UV-vis calibration kit covers UV (200-400nm) and Vis (400-780nm). NIR spectrophotometers particular spectrums measure wavelength ranges that can span 135-3300nm.