



# Manual of UV/VIS Kit 6

article 1.08166.0001

Qualification of a UV/VIS spectrometer - parameter "wavelength"

#### Suitable Cells:

Clean and dust-free quartz glass cells (e.g. Cat. No. 1.00784.0001) with a path length of  $10 \pm 0.01$  mm must be used when checking UV-VIS spectrometers. The same sample and reference cell should be used for any one test procedure. Prior to measurement, the cell should be conditioned (rinsed) with the respective standard solution.

## Opening and emptying the ampoule:

The ampoule should be opened by simply breaking off the neck (do not use a glass cutter). The opened ampoule should be used immediately. Always pour the standard solution directly into the cell- we recommend not to use pipettes, syringes, beakers, etc. If necessary, tap the bottom of the ampoule to ensure that it is properly emptied.

# Conditioning and filling the cell:

Each ampoule contains sufficient liquid for rinsing (conditioning) the cell twice and subsequently filling it. To condition a cell, half-fill it with solution, invert it so that the inside is completely wetted and empty completely. Repeat the procedure.

Do not attempt to dry the inside of the cell. For measurement fill it immediately after conditioning. Prior to measurement, wipe the outside of the cell with a disposable paper tissue moistened in ethanol (for the purpose, please use residue-free absolute ethanol of spectroscopic quality, e.g. Uvasol®, Cat. No. 1.00980). Never touch the optical windows of the cell.

#### Steo 1: Baseline correction:

A baseline correction is not necessary for this Qualification.

### Step 2: Measurement of the standard:

Completely empty the sample cell, condition and fill with holmium oxide solution for measurement

#### Information and minimum shelf life:

If stored protected from light and at room temperature (15-25°C), closed ampoules can be used for up to 36 months (see minimum shelf life on the label).

### One package covers three qualifications

For each qualification one ampoule Ho<sub>2</sub>O<sub>3</sub> is needed.