



## World Precision Instruments

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### “Calibration & Testing Report”

System description: UPUV  
Serial Number: 62383 – RMA 11157  
Cell characteristics:

	Effective pathlength	Integration Time
• 2cm:	$1.75 \pm 0.1\text{cm}$	805ms
• 10cm:	$9.90 \pm 0.1\text{cm}$	394ms
• 50cm:	$48.01 \pm 0.2\text{cm}$	1329ms
• 200cm:	$194.3 \pm 0.5\text{cm}$	2825ms

Detection range: 230 - 730 nm

- The Ultrapath cell was characterized and tested as a complete system. The values quoted above were set by the software package with an integration time such that the overall intensity was 80%. To note also, the cell was optimally cleaned and filled with *ultrapure water*. \*These values can be used as a standard for all measurements.\*
- Effective pathlengths were tested experimentally using Phenol Red dye 0.7AU/cm standard buffered solution.

Tested at WPI on August 14, 2013 by Alexander Dickson