

## How to increase HPLC UV detector response – Tips & Suggestions

**In accordance with Beer's law, there are only three things you can do to obtain increased analyte response in UV detection:**

1. The first is increasing the analyte concentration.
2. The second is increasing the path length of the UV flow cell.  
*To do this, you could use an instrument with or allows a longer path length.*

3. The third is to increase the value of the molar extinction coefficient.  
*You can do this by operating at a wavelength corresponding to the Lambda max of the analyte.*

*You normally do not want to go over approximately 1000 mAU because deviations from the ideal linear behavior predicted by Beer's law can result above this region.*



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**MicroSolv Technology Corporation**

9158 Industrial Blvd. NE, Leland, NC 28451

tel. (732) 380-8900, fax (910) 769-9435

Email: [customers@mtc-usa.com](mailto:customers@mtc-usa.com)

Website: [www.mtc-usa.com](http://www.mtc-usa.com)