

Multiple copies of the tabs (named A, B, and C) are included for convenience. If only one crosslinker is in service, only one set of tabs are needed. If multiple crosslinkers are in service, multiple sets of tabs may be used.

The following instructions also appear on the UV-Calibration tabs.

#### UV Lamp Intensity Calibration

Periodically, over the lifespan of the UV bulb the amount of energy delivered will vary. The amount of energy delivered must be estimated so that sufficient irradiation of laboratory equipment will produce a sterilizing effect. This is accomplished by measuring the amount of time the UV equipment takes to deliver 0.9999 J/cm<sup>2</sup> (essentially 1 J/cm<sup>2</sup>).

#### Materials Required

Timer  
UV Crosslinker

#### Calibration

Complete the Date/Initials field on the "Raw Data" tab.  
Choose 'Energy' mode on the crosslinker and type 9999 into the display and press enter.  
Press start on the crosslinker as you start the timer.  
Measure the length of time (the crosslinker will beep) to deliver 9999 μJ/cm<sup>2</sup>.  
Repeat this measurement for a total of 3 times, entering the individual times on the "Raw Data" tab.  
The average field and associated UV-Calibration tab will automatically be populated based upon the 3 raw data entries.

# Virginia Department of Forensic Science

## UV Calibration Worksheet

| DATE/INITIALS | # | TIMES           | AVERAGE         |
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Crosslinker: \_\_\_\_\_

| Date | Calibration Time |         | Energy Rate Delivery<br>(J/cm <sup>2</sup> /minute) | Conical Tubes<br>15 J/cm <sup>2</sup><br>Time (min) | Micro Tubes<br>6 J/cm <sup>2</sup><br>Time (min) | Microcons<br>4 J/cm <sup>2</sup><br>Time (min) |
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## UV Calibration Worksheet

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