



## Method Instructions RGB Color Coordinates for Liquids

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The RGB color coordinates for liquids application consist of two methods (Lab\_Backg and sRGB\_C2) that will calculate and report the RGB color parameters. Each parameter is reported to the i-LAB<sup>®</sup>'s screen, in addition to being saved to the log. More information on the application can be found in the RGB Color Coordinate application note.

The methods can be downloaded via the i-LAB<sup>®</sup> Spectrum Software from the [www.microptixtech.com](http://www.microptixtech.com) website. This document provides the basic instructions for downloading and running the RGB Color Coordinates Methods.

### Downloading the Methods:

1. Create a New Methods Folder in Spectrum called RGB.
2. Click on the RGB folder and click on the "Add Method (from Web)" tab.
3. Enter License Key **7ed29bce-d2d8-4afc-9ac6-479cb5dda3c2** to download the Lab\_Backg Method.  
(The Lab\_Backg method is also used by the CIE color standards application and does not need to be downloaded if the CIE application methods have already been downloaded).
4. Click on the "Add Method (from Web)" tab again and enter License Key **e59d7549-6413-4a6b-89c6-01be1cbe1fd6** to download the sRGB\_C2 Method.
5. Turn on your i-LAB<sup>®</sup> and connect to the computer with the included USB cable.
6. Click on each method individually and click on the "Send to i-LAB" tab to download the methods to your i-LAB<sup>®</sup> hand-held spectrometer.

### Running the RGB Color Methods:

There are 2 steps required to run the RGB Color application:

1. Scan and save your background reference standard with the Lab\_Backg method.
2. Scan your sample using the sRGB\_C2 method to determine the sample's RGB parameters.

### Scanning the Background Reference Standard:

1. Turn on the i-LAB<sup>®</sup>, Press the Menu Button and Select Lab\_Backg under Methods.
2. Following the prompts, you will be asked to Scan your background. The background spectrum will be saved and be used as the reference against which the sample's RGB parameters will be calculated.  
***Once you have scanned your reference standard, you will not need to run this method again unless you want to update or change your reference standard. However, it is recommended that the background reference be updated after every 20 sample measurements.***

### Comparing your Sample against the Reference Standard:

1. Turn on the i-LAB<sup>®</sup>, Press the Menu Button and Select sRGB\_C2 under Methods.
2. Following the prompts, you will be asked to Scan the sample. The i-LAB<sup>®</sup> will compare the sample spectrum against the reference spectrum and calculate the RGB parameters. The RGB parameters will be output to the i-LAB<sup>®</sup>'s screen as well as saved to the log.

**The sRGB\_C2 method can be run repeatedly for as many samples as are necessary, provided that the reference background is updated at the recommended interval.**