Pre-Irradiation Light Sources

1 Plate, 4 Plate and 9 Plate Systems

Deliver a 4 MED Dose to pre-irradiate 1, 4 or 9 PMMA Plates used for *in vitro* testing

The 16S-300-009 is a complete light source package for pre-irradiating PMMA plates used in Broad Spectrum in vitro testing of Sunscreens as defined by COLIPA, JCIA, ISO, Australian and the FDA Final Rule.

The emission spectrum follows the COLIPA guidelines which have been adopted by FDA. The Light Source has a 75mm diameter vertical beam, large enough to completely irradiate a 2" square PMMA plate. Temperature rise of the plate is less than 0.2°C.

The cycle time for irradiating with 4 MEDs effective dose is 23 minutes. Dose is measured using a PMA2101 Biologically weighted sensor which follows the Erythema Action Spectrum for effective radiation, and a PMA2100 Data logging radiometer, which accurately records the dose received. The PMA2100 Radiometer also functions as an automatic dose controller for the Light Sources to ensure the required dose is delivered to the PMMA plates.

For higher throughput, we offer the LS1000-4S-009 Light Source. The 4" square output beam allows 4 PMMA plates to be irradiated simultaneously in only 20 minutes. This dramatically increases the throughput potential for in vitro testing. If required,a larger 6" x 6" beam is available to irradiate 9 PMMA plates at one time. The temperature of the plates rises less than 0.2°C during the entire irradiation process. Please call Solar Light Company for full details.

- **High sensitivity**
- **Excellent long term stability**
- **Delivers 4 MED over 2"x 2", 4"x 4" or 6"x 6" areas**
- **Follows COLIPA, FDA, JCIA, Australian and ISO Guidelines**
- **Uniformity better than 20% as defined by FDA**

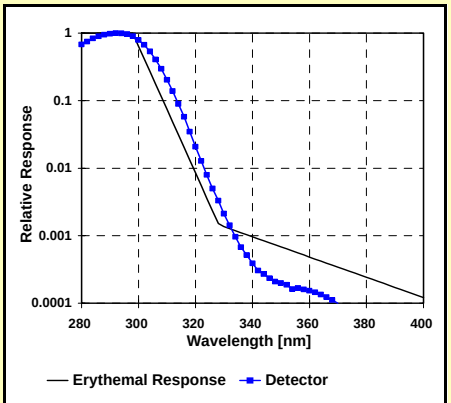

Fig.1. PMA2101 spectral response

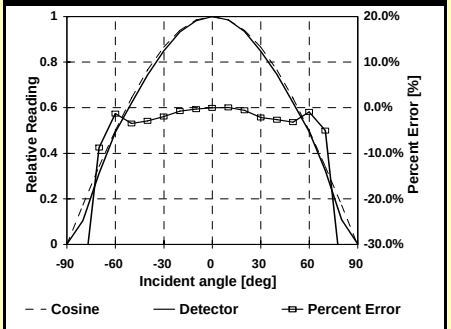

Fig.2. PMA2101 angular response

APPLICATIONS

Pre-irradiation of PMMA Plates for Broad Spectrum *in vitro* testing

ORDERING

16S-300-009 Pre-irradiation for 1 plate

LS1000-4S-009 Pre-irradiation for 4 plates

LS1000-6S-009 Pre-irradiation for 9 plates

SOLAR® LIGHT

Solar Light Company Inc. | 100 East Glenside Avenue, Glenside, PA 19038 | Phone: (215) 517-8700 | Fax: (215) 517-8747 | Email:info@solarlight.com