

530 nm SAM Verification Kit, Cat. No.: I-0003

CHEMetrics® 530 nm SAM Photometers are factory calibrated and use a 530 nm LED as a light source. The calibrations cannot change or be adjusted and the LED should not change under normal use conditions. However, it is good quality protocol to routinely verify the performance of any LED photometer. Tracking verification kit readings at user-defined intervals (e.g. weekly, monthly) will verify the stability of the photometer's performance. This kit can be used to verify the performance of CHEMetrics® 530 nm SAM photometers.

Conformance Certification

CHEMetrics® certifies that this Verification Kit has been manufactured and evaluated in accordance with strict Quality Control (QC) and Quality Assurance (QA) protocols and performs within the specifications listed below. A spectrophotometer that is certified using NIST traceable optical standards has been used to verify that each ampoule in this kit performs within the established acceptance criteria (ppm). This kit is for use only with SAMs that have inspection dates of January 2015 or later (see sticker on back of photometer).

Lot #: Insp. Date: Exp. Date:

Acceptance Criteria, ppm

Amp. ID	Chlorine I-2001	Oxygen I-2002	Chlorine Dioxide I-2005	Ozone I-2019	Peracetic Acid I-2020
Low					
High					

Contact technical@chemetrics.com for lot-specific acceptance criteria.

Stephen Craig, Quality Assurance and Regulatory Affairs

Test Procedure

To Set Zero

1. Press the Power key on the SAM photometer.
2. Wipe the Zero Ampoule supplied in the Verification Kit (contains colorless liquid) with a clean cloth. Then insert it, flat end first, into the sample cell compartment (with mild downward pressure), making sure that the ampoule is fully seated.
3. Place the light shield over the ampoule.
4. Press the Zero/Test key. After approximately 8 seconds, the display will show "0.0.0".

To Obtain a Result for the Standard Ampoules

1. Wipe the Standard Ampoule with a clean cloth. Then insert it, flat end first, into the sample cell compartment (with mild downward pressure), making sure that it is fully seated.
2. Place the light shield over the ampoule.
3. Press the Zero/Test key. After approximately 3 seconds, the test result will appear in the display as ppm (mg/L).
4. Confirm that the results fall within the acceptance criteria provided for the particular SAM being verified. If results are not within the acceptance criteria, clean the cell compartment and cell adapter and re-wipe the ampoules with a damp cloth, then repeat the test. If results are again outside the acceptance criteria, contact technical@chemetrics.com for further instructions.



www.chemetrics.com
4295 Catlett Road, Midland, VA 22728 U.S.A.
Phone: (800) 356-3072; Fax: (540) 788-4856
E-Mail: orders@chemetrics.com
Aug. 18, Rev. 5