

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 the following CHEMetrics® SAM photometers: I-2001 Chlorine, I-2002 Oxygen, I-2005 Chlorine Dioxide, I-2019 Ozone, I-2020 Peracetic Acid

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 presented below.

Lot #: Insp. Date: Exp. Date:

Acceptance Criteria for Standard Ampoules, mAbs

Standard Ampoule ID	Acceptance Criteria, mAbs
Low	
High	

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

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Test Procedure

To Set the SAM to the mAbs Mode and to Set Zero

1. With the SAM powered off, press the Zero/Test key and hold. Press the Power key. Three decimal points will appear in the display. Release the Power key and then release the Zero/Test key. The display will temporarily show "AbS" followed by "A530".
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. The display flashes for approximately 3 seconds, then "A530" will appear in the display followed by the test result in mAbs. Record the result.
4. Repeat the test with the second Standard Ampoule.
5. Confirm that the results fall within the acceptance criteria provided. 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.
6. Power the instrument off by pressing the Power key.
Note: The SAM will return to direct read (ppm) mode when the SAM powers off and then on again.



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