

Photometer Testing Guidelines

- Only use tablets designed for use in Lovibond® photometers.
- Vials, caps and stirring rods should be cleaned thoroughly after each analysis to prevent interferences. Even minor reagent residues can cause errors in the test result.
- Do not use fast dissolving/rapid tablets (green print on the foil) as you will get inaccurate results.
- The outside of the vial must be clean and dry before starting the analysis. Clean the outside of the vials with a towel. Fingerprints or other marks will be removed.
- Zero calibration and test must be carried out with the same vial as there may be slight differences in optical performance between vials.
- Store the unit in a cool dry place away from moisture.
- Do not store it in a plant room, service van or any place where chemicals are stored.
- Rinse test cells, test cell lid and crushing rod between each test to avoid cross contamination of samples.
- Do not leave wet sample cells upside down in the case.
- Do not shake the sample to dissolve tablet reagent, always use the crushing rod and place the test cell on a hard flat surface to avoid breaking the bottom of the cell.
- The vials must be positioned in the sample chamber for zeroing and test with the mark on the vial aligned with the mark on the instrument.
- Contamination of the lens in the sample chamber can result in errors. Check at regular intervals and – if necessary – clean the light entry surfaces of the sample chamber using a moist cloth or cotton buds.
- Always perform zeroing and test with the vial cap tightly closed. Only use the cap with a sealing ring.
- Bubbles on the inside wall of the vial lead to incorrect measurements. To prevent this, remove the bubbles by swirling the vial before performing the test.
- Avoid spillage of water into the sample chamber because this can lead to incorrect test results.
- Large temperature differences between the instrument and the environment can lead to errors – e.g. due to the formation of condensation in the area of the lens or on the vial.
- To avoid errors caused by stray light do not use the instrument in bright sunlight.
- Always add the reagent tablets to the water sample straight from the foil without touching them with the fingers.
- The reagents must be added in the correct sequence.
- We offer a photometer service that includes cleaning and calibration.
- Avoid using the user calibration feature. If calibration is in question phone for details.