

Lovibond® Water Testing



T-CAL® Turbidity Standards

Ready-to-Use, Formazin Turbidity Standards (EPA & ISO Compliant)

Highlights

- Save time and eliminate errors - no need for dilution
- Avoid operator liability related to improper dilutions
- Use continually for up to 24 months from production
- Don't worry about product degradation due to transportation & storage conditions

T-CAL® Turbidity Standards are stable Formazin standards prepared in ready-to-use concentrations to ensure accurate turbidity measurements.

All concentrations are verified to meet tight quality control specifications, are EPA & ISO compliant for reporting purposes and guaranteed to save you time. As a primary standard, T-CAL® Turbidity Standards can be used to calibrate or verify any manufacturer's turbidimeter.

www.lovibond.com

T-CAL® Turbidity Standards - for Calibration & Verification of any Turbidimeter



T-CAL® Turbidity Standard: A ready-to-use, stable Formazin standard that is prepared to a specific concentration, eliminates the opportunity or threat of preparation errors and is not susceptible to environmental variables.

Lovibond® offers T-CAL® Turbidity Standards in a wide variety of concentrations and packaging sizes.

- T-CAL® Turbidity Standards eliminate the opportunity for inaccurate calibrations resulting from improper dilution or handling of Formazin stock solution.
- T-CAL® Turbidity Standards can be used to calibrate or verify any manufacturer's turbidimeter, because they are a primary standard.
- T-CAL® Standards won't degrade in cold or freezing environments. Eliminate concerns over product usability due to environmental conditions during shipping or storage.
- T-CAL® standards are viable for 24 months from production.

We've got you covered. On the surface, turbidity analysis is a simple measurement. But there are all sorts of factors that can have an effect on the accuracy of readings or the dependability of an instrument.

At Lovibond®, we obsess about turbidity measurement so you don't have to. Our team of globally recognized turbidity experts work to anticipate and solve operators' struggles with turbidity measurement.

Ordering Information

Description	Part Number
T-CAL® Turbidity Standard: <0.1 NTU	
125 ml	48012012
500 ml	48012050
1000 ml	48012099
T-CAL® Turbidity Standard: 0.3 NTU	48011050
T-CAL® Turbidity Standard: 1.0 NTU	
125 ml	48011112
500 ml	48011150
1000 ml	48011199
T-CAL® Turbidity Standard: 5.0 NTU	
500 ml	48012250
T-CAL® Turbidity Standard: 10 NTU	
125 ml	48011212
500 ml	48011250
T-CAL® Turbidity Standard: 20 NTU	
125 ml	48012312
500 ml	48012350
1000 ml	48012399
T-CAL® Turbidity Standard: 100 NTU	
125 ml	48011512
500 ml	48011550
T-CAL® Turbidity Standard: 200 NTU	
125 ml	48011612
500 ml	48011650
T-CAL® Turbidity Standard: 800 NTU	
125 ml	48011712
500 ml	48011750
T-CAL® Turbidity Standard: 1000 NTU	
125 ml	48011812
500 ml	48011850

T-CALplus® Standards - for use with the PTV Process Turbidimeters

Calibration of a process turbidimeter has never been easier!

The PTV Series of Process Turbidimeters features a quick connect valve which allows the flow body to be easily drained. When you combine our T-CAL Turbidity Standards and our T-CALplus® packaging, this valve can be used to infuse calibration standard directly into the PTV flow body without creating bubbles.

Simply mix the standard and connect the provided tubing to the quick connect valve on the PTV flow body. After the calibration is complete, simply lower the T-CALplus® packaging and it refills - making disposal fast, safe and easy!

- **Safe for the User** - our T-CALplus® packaging is durable and because you'll never come into contact with the solution, concerns over operator safety and exposure to chemicals are eliminated.
- **Easy to Mix** - Simply squeeze and manipulate the T-CALplus® packaging with your hands for about 1 minute to ensure it is accurately mixed, and it's ready to use!
- **No Bubbles** - Bubbles in a sample are a major interference in turbidity measurement. Because standards need to be properly mixed before use, it can be difficult to properly prepare a standard and not create bubbles. Our T-CALplus® packaging is vacuum sealed, which allows you to easily mix the standard - without creating bubbles!
- **Stable Formulation** - T-CAL® Turbidity Standards have a long shelf life and there are no concerns about degradation in cold or freezing environments.

T-CALplus® Standards come ready to use in four different concentrations. The 5 and 20 NTU standards can be used for calibration. The 0.3 NTU and 1 NTU standards are ideal for verifying instrument performance in between calibrations.

Proper cleaning of the PTV Process Turbidimeter prior to calibration is an essential element to ensuring calibration results are correct. We offer a cleaning kit and cleaning solution to supply users with everything required to clean the instrument.



Ordering Information

Description	Part Number
T-CALplus™ Turbidity Standard, 5.0 NTU For Calibration	48010235
T-CALplus™ Turbidity Standard, 20.0 NTU For Calibration	48010335
T-CALplus™ Turbidity Standard, 0.3 NTU For Verification	48010035
T-CALplus™ Turbidity Standard, 1.0 NTU For Verification	48010135
Calibration Tube Replacement (Blue)	19806-062
Cleaning Pad	19806-803
Instrument Cleaning Solution, 100 ml	54010435

4000 NTU Formazin Stock Solution - For Creating Your Own Formazin Dilutions

Turbidity is anything present in a water sample that is capable of scattering the incident light beam of a turbidimeter. We often think of it in terms of materials such as silt, clay, pathogens and things like plankton or other microscopic organisms.

Because turbidity can literally be anything it is unique in that there is no “natural” primary standard. Formazin, a polymer solution, has been defined as the primary standard for turbidity.

Formazin makes an ideal surrogate standard, because it is stable and has excellent light scattering properties. It also has particle sizes and shapes that are irregular – this is important because when turbidity is measured in the real world, the materials present in that sample causing the light to be scattered will also be irregular and inconsistent.

Lovibond® offers a 4000 NTU Formazin Stock Solution to users so that they can create dilutions in any concentrations they would like.



Description	Part Number
Formazin Stock Solution, 100 ml 4000 NTU	48012912
Formazin Stock Solution, 500 ml 4000 NTU	48012950

Description	Part Number
Deionized Water, 500 ml	56L082297
Deionized Water, 1 L	56L082298
Deionized Water, 4 L	R-3684-GAL

Turbidimeters from Lovibond®



Questions? Don't Hesitate to Contact Us!

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