

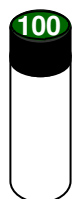
Reference Standard: Sitelab TPH-Oil
Dissolved in Hexane Solvent
CAS#110-54-3

Quantity: 2 Glass Vials; 5 mL Each
Concentration: 500 ppm

Use as a back up for preparing new calibration standards if necessary

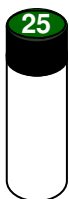
TPH-Oil Calibration Standards

Supplied in glass vials. Standards contain ready-to-use, concentrated 5 mL volumes dissolved in methanol solvent. Spare 10 mL test tubes and pipette tips are provided for preparing new standards if necessary. See preparation procedures below for details.



100 ppm
Calibrator

Use to calibrate the
UVF-500D analyzer



25 ppm
Cal Check

Use for QA/QC
after calibration



5 ppm Detection
Limit Standard

Use for QA/QC
after calibration

Sitelab Corporation CERTIFICATE OF ANALYSIS:

Use with UVF-500D on Channel A only
Optimum %FS-STD Range = 30-70
Calibrator Concentration = 100 ppm
Linear Range: 0 to 100 ppm
Minimum Detection Limit: 5 ppm

Preparation Date: **JUNE 30, 2020**

Expiration Date: **DEC 30, 2020**

Lot ID No. **OK1019063020**

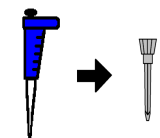
%FS-STD Response: **52.0**

%FS-BLK Response: **0.4**

DIAG values using Sitelab UVF-500D S/N 552067

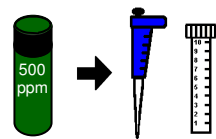
Calibration Standards Preparation Procedure

Lose or spill your calibrator? Use the following guidelines to prepare your own standards using the Reference Standard supplied with this calibration kit:

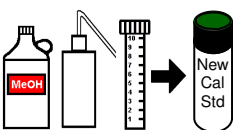


STEP 1: Attach a disposable pipette tip to the adjustable pipette and adjust the dial to the following volume settings:

Setting:	Volume:	Concentration:
"050"	50 uL	5 ppm
"250"	250 uL	25 ppm
"250" x4	1,000 uL	100 ppm



STEP 2: Pipette each volume using the Reference Standard and transfer contents into a clean 10 mL graduated plastic test tube.



STEP 3: Dilute to the tube's 5 mL line using methanol. Cap and shake contents. Pour contents back into the original glass vial. Do not store new standards in test tube.

Materials included with kit:

- (2) Glass vials with Reference Standard
- (3) Glass vials with Calibration Standards
- (20) 8 mm Glass Cuvettes
- (3) 10 mL graduated plastic test tubes and pipette tips used for preparing new calibration standards, if necessary.

Preparation supplies needed:

Methanol. Use HPLC or other high lab grade
Solvent dispenser bottle
Adjustable micropipette

IMPORTANT QA/QC to PERFORM

- Before calibrating or testing samples, be sure to only use the Channel A optics. Do not use the Channel B optics for Sitelab TPH-Oil applications. Press the "A/B" key to switch channels.
- Use methanol for calibration blank analysis. For best performance, use HPLC grade solvent. Your solvent blanks should have %FS-BLK values less than 1.
- After calibration is complete, periodically test the calibrator or the other two standards as if they were samples to check calibration curve linearity and test for instrument drift. Readings should be within 20% of the standard's concentration. If not, then recalibrating the analyzer should be performed.
- Ideally, samples should be reported having readings between the lowest and highest calibration standards (see Linear Range above). Sample readings between zero and 5 ppm are too low. Report result as "Non-Detect" or retest the sample at a lower dilution. For soil 2X Extracts, report result as "ND <10 ppm."
- Dispose glass cuvettes after use OR, if reusing the same cuvette, be sure to rinse cuvette with solvent between tests. After rinsing, invert cuvette and tap gently onto dry tissue wipes to drain excess liquid. Wipe outside glass with tissue prior to testing samples to remove fingerprints or excess liquids.
- For long term storage, keep all standards in a cool, dry place or refrigerator when not in use. Store standards upright with caps firmly tightened.
- Do not use this product beyond the 6-month expiration date.

Manufactured By: Sitelab Corporation
86 Coffin Street
West Newbury, MA 01985 USA
Toll Free: 877-SITELAB
Phone: (978) 363-2299
Order Online: UVF-500D.COM

WARNING! CAS#67-56-1 UN #1230

This product contains methyl alcohol solvent (>99.95% volume). See Material Safety Data Sheet provided for details.



Sitelab TPH-Oil Calibration Kit Certificate
Product No. CAL-056M-6MO
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