



Cleaning Validation

TOC Cleaning Validation Kits

TECHNICAL DATA SHEET



CY-3340



CY-3343



CY-3342



CY-715A Featured in CY-3340 & CY-3342 TOC Cleaning Validation Kits



CY-761K Featured in cy 3343 TOC Cleaning Validation Kit

Description

Huachenyang's TOC Cleaning Validation Kits were designed to simplify sampling as part of a cleaning validation protocol. The swabs and vials are further cleaned using a proprietary process to make these kits excellent for use in Total Organic Carbon (TOC) analysis.

Lot coded for traceability and quality control.

Features & Benefits

Kit

- ◎ Organized, convenient and secure method for transporting swabs and vials from storage area to sampling sites to laboratory with minimal chance of contamination.
- ◎ Three size options available.

Vials

- ◎ Certified Low TOC level (<10 µg/L, <10 ppb) ensures consistency in vial background contribution.
- ◎ Prewashed borosilicate glass vials have a one-piece cap and septa design for easy sampling and analysis.
- ◎ Septum thickness – 1.34 mm (0.053")
- ◎ Polyethylene overcap protects septum surface from contamination until time of analysis.
- ◎ Sloped shoulder design minimizes headspace for reduced background TOC level.
- ◎ Endorsed for use by TOC instrumentation manufacturers.

Applications

- ◎ Surface sampling for use in:
 - TOC analysis as part of a cleaning validation protocol.
 - As part of other cleaning validation protocols.
- ◎ Non-organic liquids sampling for contamination source investigations.

Swabs

- ◎ Certified Low TOC level (<50 µg/L, <50 ppb) ensures consistency in swab background contribution.
- ◎ Double layered, double knit polyester head entraps contaminants in knit structure during sampling. This allows maximum contaminant collection and release into the diluent to provide for excellent recovery rates.
- ◎ Notched, break-away handle allows the head to be placed into the vial with minimal handling and contamination.
- ◎ 100% polypropylene handle ensures no additional contaminants are introduced and provides excellent chemical resistance.

Labels

- ◎ Cleanroom compatible for vial sample identification and traceability.

Container/Box

- ◎ Double bagged and packed in a cleanroom compatible polypropylene box.



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Testing Report

Total organic carbon (TOC) Testing Procedure.

- (1) Confirm equipment is clean and operator is gowned properly for testing (clean gloves, face mask, gown, hairnet, clean environment).
- (2) Take “cleaned” low TOC swabs and break tip off in a certified low TOC vial.
- (3) Fill the vial with 40 mL of ultrapure, low TOC water and seal.
- (4) Vortex vial for 15 seconds.
- (5) Fill another empty certified low TOC vial with 40 mL of ultrapure, low TOC water and seal. This will be used as a “control blank”.
- (6) Run the “control blank” through the TOC testing instrument to quantify the vial and water levels. Measurements should be taken in µg/L.
- (7) Run the vial, with the swab inside, through the TOC testing equipment. Measurement should be taken in µg/L.
- (8) Subtract the “control blank” from the swab vial to get final measurement. All measurements should be taken in µg/L. Our goal is to be less than 50 µg/L.

TOC			
Test	Specifications	Units	Result
Total Organic Carbon: Swabs	< 50 µg/L	µg/L	35

Instructions for Use

1. Please consult your written SOPs for sampling instructions.
2. Dip the swab in solution.
3. Sample the area.
4. Remove the vial cap.
5. Snap the swab head by placing the swab head into the vial with the notch touching the top of vial. Avoid touching the swab head.
6. Replace the cap.
7. Label the sample.

Note: Cleaning Validation Swab Sampling Guide available for download at www.chenyanglobal.com

Products

Number	Description	Packaging
CY-3340	Cleaning Validation Kit Components <ul style="list-style-type: none"> • 12 40 mL clear vials bonded septa caps, certified <10 µg/L TOC • 24 CY-715A Low TOC iCleanhcy® Sampling Swabs, certified <50 µg/L TOC • 12 blank vial labels 	18 kits/case
CY-3342	Bulk Cleaning Validation Kit Components <ul style="list-style-type: none"> • 72 40 mL clear vials bonded septa caps, certified <10 µg/L TOC • 144 CY-715A Low TOC iCleanhcy® Sampling Swabs, certified <50 µg/L TOC • 72 blank vial labels 	1 kit/case
CY-3343	Cleaning Validation Kit Components <ul style="list-style-type: none"> • 12 40 mL clear vials bonded septa caps, certified <30 µg/L TOC • 24 CY-761K Low TOC iCleanhcy® Swab with Long Handle, certified <50 µg/L TOC • 12 blank vial labels 	18 kits/case