

Maintenance

Weekly - Clean the Analyzer

1. Clean the analyzer's surface using a mild detergent and a soft cloth.
 2. Clean the SMC with 10% Bleach-based cleaning solutions, 70% isopropanol, or 3% hydrogen peroxide using a lint-free cloth.
- ▶ Limitations- The following cleaning solutions ARE NOT compatible with our current plastics:
- Ammonium chloride and ammonia-based cleaners
 - Ethanol-based cleaners
 - Cidex-based cleaning solutions (glutaraldehyde-based disinfectants)
 - Betadine-based cleaners (povidone-iodine solutions)

Note: Clean the analyzer using the disinfectant after each sample has been analyzed. Do NOT spray disinfectant directly onto the sample measurement chamber (SMC) glass, air vents on the underside of the analyzer, or any other part of the analyzer. Instead, spray disinfectant onto a disposable wipe. Then, apply disinfectant to the analyzer. Avoid getting disinfectant into the power adapter located near the power switch.

Every 3 months - Run the Hb Calibrator Cassette

1. From the <Ready> display, scan the bottom barcode on the calibrator cassette package.
2. Enter User ID if enabled.
3. At the prompt, open the SMC cover. Gently clean the optics window and the inside top cover. Wipe both sides of the calibrator cassette. Seat the calibrator into the chamber and close.
4. After the cover has been closed, the instrument will automatically begin calibration.
5. When calibration is complete, remove the calibrator cassette.
6. System returns to Home screen.

Tip: Do not discard the Hb calibrator cassette and make sure to keep it with the analyzer at all times.

Every 12 Months - Replace Peristaltic Pump and I/O Port

1. Open the printer cover.
2. Remove the pump by grasping the sides and pulling straight up.
3. Replace the pump seals only as needed.
4. Carefully remove pump seals with tweezers or hemostats.
5. Rotate the pump shaft until the flat edge aligns with the new pump roller.
6. Firmly press the pump down onto the shaft.
7. Next press down on the pump roller to finalize installation.
8. Open the SMC and remove the I/O port seal with hemostats or tweezers. Discard the old Port and press in the new I/O port.
9. Insert the new seal with the round side up and press firmly into place.



Technical Support

Inside the USA: 1-800-490-6784 or technicalsupport@optimedical.com

Outside the USA: Please contact your local OPTI Medical distributor

CAUTION: Handle and dispose of all biological samples in accordance with your facility's policies. Obtain appropriate medical attention in the event of any exposure to biological samples since samples may transmit infectious diseases. Use the products only as directed in the manual.

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AT7300, Rev B

OPTI® CCA-TS2 Analyzer

Quick Reference Guide

Sample Collection and Handling

- ▶ Collect blood in a heparinized syringe, capillary tube, OPTI Medical ComfortSampler®, or sample aspiration tube (E-Lyte CCA cassette only). Use only heparinized salts (Na⁺, Li⁺, Ca⁺⁺) as anticoagulants; do not use EDTA, citrate, oxalate, etc.
- ▶ Samples should be collected anaerobically. Expel any trapped air bubbles from syringes and thoroughly mix immediately after collection.
- ▶ Gently rotate or invert samples for a minimum of 2 minutes before analysis because the sedimentation of blood cells affects the measurement of total hemoglobin.
- ▶ Whole blood samples should be analyzed for blood gas as soon as possible, ideally within 5 minutes after collecting the sample. Samples may be kept at room temperature for up to 30 minutes. Ice the sample if it cannot be analyzed within 30 minutes.

Running a Patient Sample

1. From the <READY> display, scan barcode by holding the cassette package 2-3 inches from barcode scanner.
 - ▶ *Tip: Press the <Last Entry > button if using the same lot of cassettes instead of scanning the barcode.*
2. Enter User ID if prompted and open the sample measurement chamber.
3. Wipe and insert the cassette into the sample measurement chamber.
4. Close the sample measurement cover.
5. Thoroughly mix the sample.
6. When prompted, place the syringe onto the syringe adapter.
 - ▶ *Tip: Make sure the syringe adapter is not touching the syringe plunger.*If using a capillary, insert the end directly into the cassette.
If using a sample aspiration tube, remove syringe adapter and insert sample aspiration tube directly into the cassette.
7. Press <OK>. The sample is then automatically aspirated. *Do not inject sample.* Follow the prompts in the next steps (E-Lyte CCA type).
8. Press <Patient Info> to enter patient info while measurement is in process. Press the <Last Patient Info> button to populate all patient info fields with the last patient data.
 - ▶ *Tip: Always verify that patient information is correct when using this feature.*
9. The analyzer will beep when measurement is complete. Complete editing patient information or press ↑ to review results immediately.
10. Open the cover and remove the cassette.



QC Recommendations

- ▶ **SRC:** OPTI Medical recommends running at least two levels of the SRC cassette every day of operation.
- ▶ **Liquid Controls:** OPTI Medical recommends running liquid controls once a month or with every new lot or shipment of cassettes.

QC Set-up

1. From the **<Ready>** display, press **<System Manager>** and then press **<Setup>**.
2. In the **<Patient/QC>** tab, select **<Control>**.
3. Using the barcode sheet, scan **Barcode A** for the applicable level of OPTI Check or OPTI Check Plus. Scan **Barcode B** when prompted. When using OPTI Check Plus, scan **Barcode C** for the applicable level.
 - ▶ *Tip: OPTI Check and OPTI Check Plus Quality Control materials are designed for your OPTI CCA-TS2 and have assigned assay ranges for each measured parameter.*
4. Confirm the lot number, expiration date, and control type. If the barcode is unavailable, press **<Ranges 1>** and **<Ranges 2>** to enter the control information manually.
5. Press the **<Ranges 1>** and **<Ranges 2>** tabs to confirm the assay ranges on the package insert supplied with the control material.
6. To continue quality control programming, repeat for remaining QC levels.

Running an SRC measurement

1. From the **<Ready>** display, scan the barcode on the bottom of the SRC package.
2. Enter User ID if prompted and press **<OK>**.
3. On the screen that pops up, select the desired levels and press **<OK>**.
4. Open the sample measurement chamber.
5. Examine the SRC to make sure it is clean. Press the SRC firmly into the chamber to ensure the SRC is properly seated and close the cover.
6. After the cover is closed, the instrument begins the measurement process.
7. When measurement is complete the analyzer will display the results.
 - ▶ *Tip: If the SRC fails, gently clean the SRC, optics window, and inside cover of the chamber. Repeat test.*
8. Press **⬆** to acknowledge SRC results.
9. When prompted, open the sample measurement chamber cover and remove the SRC. Close the cover.
10. Immediately place the SRC back in its pouch and return to the rear storage compartment of the analyzer. Do not discard the SRC.

 Refer to the Operator's Manual for detailed instructions.

Running OPTI Check Controls

1. From the **<Ready>** display, press **<QC Manager>** and then press **<Control>**.
2. Enter the User ID if prompted and press **<OK>**.
3. Select the desired lot number and level from the available configured lots and press **<OK>**.
4. Scan the cassette barcode via the barcode scanner.
5. Open the sample measurement chamber.
6. Open the cassette pouch, wipe and insert the cassette.
7. Press the cassette firmly into the chamber and close the cover. The cassette will now calibrate.
8. Gently invert the OPTI Check vial several times to mix, being careful not to heat it with your hand.
 - ▶ *Tip: Measurement errors may occur if vials are shaken vigorously enough to form many small bubbles.*
9. Gently tap the head of the vial with your finger to remove any liquid.
10. Carefully open the vial by breaking off the top.
 - ▶ *Tip: Protect your fingers by using gloves or a tissue while breaking the vial.*
11. Place the vial directly on the syringe adapter. Hold the vial at a 45° angle on the end of the syringe adapter.
 - ▶ *Tip: OPTI Medical recommends using a new vial for each measurement for best results. Due to the gas concentration of the solution, controls should be measured as quickly as possible once opened.*
12. Press **<OK>** to automatically aspirate the sample.
13. Once results are displayed, press **⬆** to accept or reject results. Rejected results will be printed, but not stored to the database. Results outside of the measurement range ("low" or "high") cannot be accepted.



Consumables

B Cassettes	BP7562	OPTI Check, Trilevel	HC7008
E Cassettes	BP7587	OPTI Check Plus, Trilevel	HC7009
E-Ca Cassettes	BP7560	Multi-level SRC	BP7652
E-Cl Cassettes	BP7559	tHb-Calibrator Cassette	BP7653
E-Glu Cassettes	BP7564	Printer Paper	HP0070
E-BUN Cassettes	BP7588	Gas Bottle	BP7162
B-Lac Cassettes	BP7561	Peristaltic Pump Cartridge	BP7012
B60 Cassettes	BP7586	Sample Aspiration Tube	BP7183
E-Lyte CCA Cassettes	BP7667	(E-Lyte CCA Cassette)	