

Quality Testing of Revital-Ox Resert R60 Test strips and Solution

Purpose

The purpose of this procedure is to provide medical imaging staff with a process for quality testing of Revital-Ox Resert R60 Test Strips and Solution.

Site Applicability

This procedure is applicable to all MI departments with a satellite reprocessing area within Fraser Health (FH) and Vancouver Coastal Health (VCH).

Practice Level

Profession:	Responsibilities:
Sonographer and all MI Staff	<ul style="list-style-type: none"> Perform quality control testing of the R60 Test Strips before use when opening a new test strip bottle Monitor minimum effective concentration of Revital-Ox Resert solution with R60 Test Strips

Requirements

It is the responsibility of sonographers and MI staff to ensure compliance with this procedure. Staff must ensure the R60 Test Strips pass the positive and negative control tests and monitor the minimum effective concentration (MEC) of Revital-Ox Resert solution.

Need to Know

Revital-Ox Resert R60 Test Strips must be tested prior to usage for every new bottle opened.

It is recommended that Revital-Ox Resert solution be tested before each usage in order to guard against dilution which may lower the hydrogen peroxide concentration of solution below its MEC of 1.5% hydrogen peroxide. The solution may be reused up to a maximum of 14 days, provided the required conditions of hydrogen peroxide concentration, and temperature exist based on consistent monitoring.

Equipment and Supplies

Table 1: **Supplies for Revital-Ox Resert R60 Test Strip Quality Control Test**

Item	Quantity
Specimen container	2
Timer	1
Thermometer	1

Procedure

Table 1: **Revital-Ox Resert R60 Test Strip Quality Control Test**

Note: This quality test must be done for every new bottle of R60 test strips

1. Wear appropriate PPE for working with Revital-Ox Resert (Gloves, mask, eye protection/shield, gown)
2. Prepare 2 control solutions:
 - a. Positive Control: Dispense 40 mL of Revital-Ox Resert in one specimen container.
 - b. Negative Control: Dispense 20mL of Revital-Ox Resert and 20mL of water in another specimen container
3. Use thermometer to confirm that each solution's temperature is greater or equal to 20 degrees Celsius.
4. Remove 3 strips from the bottle and dip into POSITIVE CONTROL for 2 seconds per strip
5. Remove the strip and remove excess fluid by touching the short edge of the indicator pad to the paper towel. **Do not blot the excess fluid off the strip.**
6. Place strips on paper towel with indicator pad facing up and start timer for 60 seconds. **Do not read the test strips before or after the 60 seconds.**
7. At 60 seconds, compare the indicator strip to the color reference on the bottle. All three indicator strip must resemble the pass indicator on the bottle.



8. Remove 3 strips from the bottle and dip into NEGATIVE CONTROL for 2 seconds per strip.
9. Remove the strip and remove excess fluid by touching the short edge of the indicator pad on the paper town. **Do not blot the excess fluid off the strip.**
10. Place strips on paper towel with indicator pad facing up and start time for 60 seconds. **Do not read the test strips before or after the 60 seconds.**
11. At 60 seconds, compare the indicator strip to the color reference on the bottle. All three indicator strip must resemble the fail indicator on the bottle.



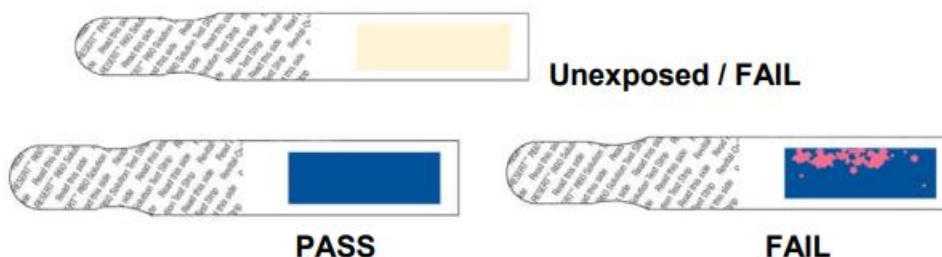
12. **Failing Test – Do not use strips if:**
 - a. One or more strips fail in PASS solution
 - b. One or more strips pass in FAIL solution

Do not use any strips from the bottle/batch received if strips fail test. Report to supervisors to report to vendor representative and complete product concern submission.
13. If strip test's PASS the pass and fail solution, the bottle of test strips are acceptable for use. Record the expiry date (180 days) on the bottle in the space provided and on Appendix A: [Revital-Ox Resert R60 Test Strip Quality Control Record](#).

Table 2: Revital-Ox Resert Solution Quality Control Test

Note: This quality test must be done before every ultrasound probe HLD process and solution change

1. Wear appropriate PPE for working with Revital-Ox Resert (Gloves, mask, eye protection/shield, gown)
2. Follow [Reprocessing of Ultrasound Transducer Probes](#) for complete reprocessing procedure
3. Use thermometer, confirm Revital-Ox Resert Solution temperature is greater or equal to 20 degrees Celsius.
4. Confirm solution meets minimum effective concentration (MEC) with R60 Test Strip. Remove 1 strip from the test trip bottle and dip into solution for 2 seconds
5. Remove the strip and remove excess fluid by touching the short edge of the indicator pad to the paper towel. **Do not blot the excess fluid off the strip.**
6. Place strips on paper towel with indicator pad facing up and start timer for 60 seconds. **Do not read the test strips before or after the 60 seconds.**
7. At 60 seconds, compare the indicator strip to the color reference on the bottle. All three indicator strip must resemble the pass indicator on the bottle.



8. If the indicator strip indicates that the concentration is not acceptable, discard the solution and do not process the ultrasound probe in this solution.
9. Maintain a record of the Revital-Ox Resert Solution MEC on the Ultrasound Probe High Level Disinfection Reprocessing Record at [Reprocessing of Ultrasound Transducer Probes](#) or Appendix B: [Revital-Ox Resert Solution Change Record](#) depending on when this quality test is performed.

Table 3: Revital-Ox Resert Solution Change

Note: An opened bottle of Revital-Ox Resert solution maybe stored up to 90 days provided the date does not extend past the expiration date on original bottle. Write this date (90 days after opening) on the bottle.

Revital-Ox Resert solution in the GUS container may be reused up to a maximum of 14 days, provided the required conditions of hydrogen peroxide concentration, and temperature are met with consistent monitoring and the 14 days does not extend past the expiration date on the bottle.

1. Discard used Revital-Ox Resert solution
2. Rinse GUS container with water
3. Low level disinfect the GUS container with accelerated hydrogen peroxide wipe and allow for appropriate contact time as indicated on package to complete low-level disinfection. Terminal clean of the GUS containers is acceptable if this is available in your MDR department.

4.	Once the GUS container is dry, pour the desired amount of Revital-Ox Resert solution from the original container.
5.	Perform a quality control test (Refer to Table 2) of the Revital-Ox Resert solution in the GUS container
6.	If the indicator test strip indicates the solution is acceptable, record the Revital-Ox Resert solution change on Appendix B: Revital-Ox Resert Solution Change Record

Related Documents

- [Reprocessing Of Ultrasound Transducer Probes](#)

References

Steris Healthcare. *Procedure: Revital-Ox™ RESERT™ R60 Solution Test Strip*. (2015). Retrieved from <https://ww1.steris.com/onbDocs/V466/1/2628391.pdf>

Sterile Healthcare. *Revital-Ox Resert High Level Disinfectant*. Retrieved from <https://ww1.steris.com/onbDocs/V526/0/4224852.pdf>

Appendices

- [Appendix A: Revital-Ox Resert R60 Test Strip Quality Control Record](#)
- [Appendix B: Revital-Ox Resert Solution Change Record](#)

Appendix A: Revital-Ox Resert R60 Test Strip Quality Control Record

This form each time a new bottle of test strips is opened

If the bottle is being opened for the first time, record the new expiration date on the bottle where indicated.

NOTE: The new expiration date is 180 days after bottle is opened or it is the labeled expiration date on the bottle if that's sooner.

Date	Lot Number	180-Day Expiry Date	PASS Solution	FAIL Solution	Initials
	Manufacturer's Expiry Date		(Positive Control) All 3 should pass = PASS	(Negative Control) All 3 test should fail = PASS	
			<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	
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			<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	

Appendix B: Revital-Ox Resert Solution Change Record

After opening a new bottle of Revital-Ox Resert Solution:

- the bottle may be stored for up to 90 days (provided the 90 days does not extend past the expiration date on the container)
- Write this date (90 days after opening) on the bottle

Revital-Ox Resert Solution may be reused up to a maximum of 14 days, provided the required conditions of hydrogen peroxide concentration, and temperature are met with consistent monitoring and the 14 days does not extend past the expiration date on the container.

Date	Lot Number	Next Change Date	Shelf Life	In Use Life	MEC	Initials
					<input type="checkbox"/> Pass <input type="checkbox"/> Fail	
					<input type="checkbox"/> Pass <input type="checkbox"/> Fail	
					<input type="checkbox"/> Pass <input type="checkbox"/> Fail	
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					<input type="checkbox"/> Pass <input type="checkbox"/> Fail	
					<input type="checkbox"/> Pass <input type="checkbox"/> Fail	

Definitions

Next Change Date: 14 days from the date the solution was last changed/first use.

Shelf Life: Manufacturer expiry date on the original Revital-Ox Resert Solution bottle

In Use Life: 90 days from the date the bottle was opened

MEC: Minimum Effective Concentration. Use R60 Test Strip to indicate appropriate concentration of solution

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	1.0	4-OCT-2019	Initial release of forms Solution & Test Strip QC record and QC Procedure	Brent Barton, US & Echo RPL
	2.0	16-FEB-2024	Amalgamate and revise outdated original document & forms and put into SHOP format (assign SHOP#)	Catherine Lo, Ultrasound and Echocardiography Reg Practice Lead