YALE-NEW HAVEN HOSPITAL	TITLE: **QUANTA-Lyser® Operation & Maintenance Procedure**		**DEPT OF LAB MEDICINE Immunology Policy and Procedure Manual**
			DOCUMENT # IMM-162
			Page 1 of ~~1~~ -
WRITTEN BY: Sue Goettlich & Voula J. Kalmanidis MBA, MT (ASCP)	**EFFECTIVE DATE:**	**REVISION:** H-1	**SUPERCEDES:**

A. Materials Needed:

1. CLRW(Clinical Laboratory Reagent Water)
2. Reagent Grade Ethanol(Cardinal)
3. QUANTA-Lyser®(SIAS)
4. Microdilution Tubes(INOVA)
5. Large and Small Reagent Containers with Screw Caps(INOVA)
6. Contrad 70®(INOVA)

B. Start up:

1. Turn the instrument on by pressing the power switch located on the bottom left of the front panel of the instrument. The instrument will then go through a series of self-checks as it is powering up.
2. Turn on the QUANTA-Lyser® computer.

C. Daily Maintenance:

1. Daily Maintenance is performed at the beginning and end of every day.
2. From the desktop, open the QUANTA-Lyser® software application by double-clicking on the QUANTA-Lyser® icon. Click on Worklist.
3. Click on Service
4. From the list of Service operations, perform the first 3 Service Operations. Follow the prompts on screen.
5. Maintenance - Prime Procedures:
    a. Prepare Contrad 70® Solution: add 16 mL of Contrad 70® to 4L CLRW. Mix well and place into the Contrad 70® reservoir holder.
    b. Ensure that all reagent lines are in CLRW.
    c. Click on Start. Follow the prompts in the description dialog box.
    d. Click on continue.
    e. Lightly tap the fluid lines going into the four probes after the first prompt is selected. This will remove any air bubbles in the lines.
6. Maintenance - Tips Decontamination:
    a. Prepare Decontamination Solution of 70% ethanol(70 ml of ethanol to 30ml CLRW)
    b. Place the solution in position 6 of the Diluent rack.
    c. Click on start
    d. Click on continue
7. Maintenance - Washer Prime Procedures:
    a. Ensure that all reagent lines are in CLRW
    b. Click on start.
    c. Click on continue
8. Utility - Washer Dispense and:
    a. Load an ELISA plate on plate 1 area.
    b. Click on Start
    c. Click on continue
    d. After the dispense verification is done, remove the plate and examine for even dispensing of CLRW in all wells.
9. Utility - Washer Aspirate Verification
    a. Place the plate back into plate 1 area.
    b. Click on start

c. Click on continue2

d. After the aspirate verification test is complete, remove the plate and examine that all wells have been completely aspirated.
d. If any of the above conditions fail (Steps 7 &8), take a metal stylus from DSX equipment and clean the aspirate/dispense ports on the QUANTA-Lyser® wash head.
f. Then repeat Steps 7 and 8.
g. If the problem is not resolved, Call INOVA Technical Support 1-800-545-9495 to initiate an on-site service call. The serial number for the instrument is 1887.

D. Weekly Maintenance:

1. Clean the gripper with 70% ethanol
2. Perform ethanol decontamination of the reagent lines
    a. Prepare a 70% ethanol solution by mixing 700 mL of ethanol and 300 mL CLRW into a container
    b. Place all the reagent lines into the 70% ethanol solution
    c. From the Service Menu, click on Maintenance – Washer Prime Procedures. Perform this process twice.
    d. When completed, remove the reagent lines and discard the ethanol solution. Rinse the container well with CLRW. (There should be no lingering ethanol odor). Fill the container with CLRW
    e. Place all the reagent lines into the container and swirl to wash the outside of the reagent lines. Place the reagent lines back into the routine CLRW containers where they are stored.
    f. Perform the Washer Prime Procedures again, three times to rinse the lines.

E. As Needed:

1. If any signs of mold or bacterial infiltration appear in any of the wash tubing, a decontamination with a 10% Bleach solution should be performed
    a. Prepare a 10% Bleach solution. Approximately two liters should be prepared
    b. Place all the wash lines into the bleach solution.
    c. From the Service Menu, click on Maintenance – Washer Prime Procedures
    d. Immediately after the primes have finished, rinse the outside of the tubing with CLRW, then place all the lines into approximately 4 liters of CLRW.
    e. Perform the Washer Prime Procedures again, ten times to rinse the lines.
    f. Place the lines back into the routine CLRW containers where they are stored with fresh CLRW

F. Preventative Maintenance:

Preventative maintenance is performed every six months by Excalibur Technical Services

G. Shut Down:

1. Power down the QUANTA-Lyser® by exiting all programs and then turning off the computer
2. Turn off the instrument
3. Empty the waste container

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Signature Approval for Annual Review
Name: QUANTA-Lyser® Operation & Maintenance

Document #: IMM 162

Name (Print)	Title	Signature	Date of Review	Revision Page and Section # (Use Procedure Review Log to document staff review)	Issue Date for Training if Applicable	Effective Date for Use
TEODORICO LEE	LAB MANAGER	Teodorico Lee	2/25/13	NEW		
BRIAN SMITH	LAB DIRECTOR	[illegible]	3/1/13	NEW		

INOVA QUANTALyser 160 Maintenance Log

Serial # 1887

Month:_____	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Daily																															
Prime																															
Tip Decontamination																															
Washer Prime																															
Washer Dispense Verification																															
Washer Aspirate Verification																															
Initials																															

Weekly	1	2	3	4	5
Clean/Gripper / Alcohol (70%) Decontamination					
Date					
Initials					

As Needed	1	2
Date		
Initials		

PM-Every Six Months	1	2	3	4	5
Date					
Initials					

Supervisor's Review	1	2	3	4	5
Date					
Initials					

Note: NS= Not scheduled.