

TULIP DIAGNOSTICS (P). LTD. (INSTRUMENT DIVISION)

BAMBOLIM, ST-INEZ & VERNA - GOA

Ref. SOP No: SOP/ID/013
CC No: CC18/ID/001

CALIBRATION CERTIFICATE

Model: Lisaquant - TS

Calibration Date: 25/01/2021

Sr. No.: 451527026E

Calibration Due Date: 24/01/2022

Check Base plate & Top Cover Visually

1) A/D VALUES

Tick YES if OK, or else tick NO.

- WITHOUT MICROWELLS (AIR) (Range 6000-65000).

FILTER	405	450	492	630
A				
B				
C				
D				
E				
F				
G				
H				

With in range YES NO

2) TOUCH PANEL

Check the all Menu by clicking them individually with help of Touch pen, beep should be heard when clicked.

YES NO

3) DISPLAY

Check all the Menu & characters on display are visible properly.

YES NO

4) EXTERNAL PRINTER CONNECTION

Check printing.
All characters should print properly.

YES NO

5) Horizontal Movement

There should not be any sound or vibration.

YES NO

6) Centering checked

By reversing the filmstrip check readings are Repeating or not.

YES NO

FM/ID/029-00

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Corporate Office: Gitanjali, Tulip Block, Dr. Antonio Do Rego Bagh, Alto Santacruz, Bambolim Complex P.O., Goa - 403 202, INDIA.
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7) MONOCHROMATIC DISTILLED WATER READINGS

YES NO

Check water readings in Absorbance mode. It has to be Below 0.150 in new plate with 150µl water.

Reading of distilled water 450nm filter.

A1 well	B1 well	C1 well	D1 well	E1 well	F1 well	G1 well	H1 well

.....

8) BIOCHROMATIC DISTILLED WATER READINGS

YES NO

Check water readings in Absorbance mode. It has to be above 0.000 & below 0.050 in new plate with 150µl water.

Reading of distilled water 450nm and 630nm filter.

A1 well	B1 well	C1 well	D1 well	E1 well	F1 well	G1 well	H1 well

.....

PASSED

(Tick yes if OK or else tick no, and give reason)

YES

No

CALIBRATED BY:



APPROVED BY:

[Signature]
[Floyd Osouza]

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BAMBOLIM, ST-INEZ & VERNA - GOA

Ref. SOP No: SOP/ID/013
CC No: CC18/ID/001

CALIBRATION CERTIFICATE

Model: Lisawash 4000

Calibration Date: 25/01/2021

Sr. No.: 591602027 E3A

Calibration Due Date: 24/01/2022

Check Base plate & Top Cover Visually

Tick yes if OK, or else tick no,

- | | | |
|---|---|-----------------------------|
| 1) Prime: - Level in the rinsing strip | YES <input checked="" type="checkbox"/> | NO <input type="checkbox"/> |
| 2) Rinse: - Level in the rinsing strip | YES <input checked="" type="checkbox"/> | NO <input type="checkbox"/> |
| 3) Plate wash: - Residual Volume (<3 µl) | | |
| Plate no. 1 400µl | YES <input checked="" type="checkbox"/> | NO <input type="checkbox"/> |
| Plate no.2 350µl | YES <input checked="" type="checkbox"/> | NO <input type="checkbox"/> |
| Plate no.3 300µl | YES <input checked="" type="checkbox"/> | NO <input type="checkbox"/> |
| 4) Strip wash: - Residual Volume (<3 µl) | | |
| Plate no. 1 400µl | YES <input checked="" type="checkbox"/> | NO <input type="checkbox"/> |
| Plate no.2 350µl | YES <input checked="" type="checkbox"/> | NO <input type="checkbox"/> |
| Plate no.3 300µl | YES <input checked="" type="checkbox"/> | NO <input type="checkbox"/> |
| 5) Dispensing: - Dispensing is without splashing or not | | |
| Without Rinsing | YES <input checked="" type="checkbox"/> | NO <input type="checkbox"/> |
| With Rinsing | YES <input checked="" type="checkbox"/> | NO <input type="checkbox"/> |
| Dispensing Volume: | | |
| Plate no. 1 400µl | YES <input checked="" type="checkbox"/> | NO <input type="checkbox"/> |
| Plate no.2 350µl | YES <input checked="" type="checkbox"/> | NO <input type="checkbox"/> |
| Plate no.3 300µl | YES <input checked="" type="checkbox"/> | NO <input type="checkbox"/> |
| 6) Waste bottle: - Check for Waste Bottle sensor | | |
| Message on Display & Beep when Bottle is Full | YES <input checked="" type="checkbox"/> | NO <input type="checkbox"/> |
| 7) Wash1 bottle: - Check for Wash1 Bottle sensor | | |
| Message on Display & Beep when Bottle is empty | YES <input checked="" type="checkbox"/> | NO <input type="checkbox"/> |

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Innovative Excellence

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- 8) Wash2 bottle: - Check for Wash2 Bottle sensor
Message on Display & Beep when Bottle is empty YES NO
- 9) Wash3 bottle: - Check for Wash3 Bottle sensor
Message on Display & Beep when Bottle is empty YES NO
- 10) Water bottle: - Check for Water Bottle sensor
Message on Display & Beep when Bottle is empty YES NO
- 11) Sensor cable: - Check for Sensor cable
Beep when sensor cable is not connected YES NO
- 12) Incubator: - Check for temperature
Ambient, 25 °, 30 °, 37° C ± 1° C YES NO

Measured Temperature	25°C, 30°C, 37°C
Displayed Temperature	25°C, 30°C, 37°C

13) Tools used

Description	Sr. No/ Model	Traceability
Digital Multimeter	MASTECH/MS8264	QATECH/GOA/01/20/IN121000002

- 14) Keyboard: -
Check all keys on keyboard by pressing
Them individually, beep should be heard when pressed. YES NO
- 15) Display
Check all the characters are visible properly. YES NO
- 16) Horizontal Movement
There should not be any sound or vibration YES NO
- 17) Vertical Movement
There should not be any sound or vibration. YES NO
- 18) Centering check
Check by reversing the Plate YES NO

OTHER INSTRUCTIONS (IF ANY, PLEASE SPECIFY)

CALIBRATED BY:

APPROVED BY:



[Signature]
Floyd D'Souza

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