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Calibration Certificate

This is to certify that **Dimension Xpand & Serial Number 2004080709, Instrument ID 6640000021993** installed at **Malavia Advanced Laboratory -Surat** has been successfully calibrated on 11th July 2022. Please find below, results of calibration performed on the instrument.

Photometric Calibration Data are as follows:

Photometer Dark Calibration

Parameter	Observed Value	Accepted Range
Reference	9058.93 Hz	8500 – 11000 Hz
Sample Outer ON	9439.80 Hz	8500 – 11000 Hz
Sample Outer OFF	9437.94 Hz	8500 – 11000 Hz

Lamp Calibration

Low Calib Level	52.0 %	NA
High Calib Level	65.2 %	NA
Photometer Arm Alignment	6.49 %	-2 to -9

Filters	Offset (mAU)	System Check Results	Range
293 nm	314	1.82	+/- 2.5
340 nm	315	-0.23	+/- 1.5
383 nm	316	-0.27	+/- 1.5
405 nm	314	-0.17	+/- 1.5
452 nm	319	0.26	+/- 1.5
510 nm	314	0.41	+/- 1.5
540 nm	318	0.35	+/- 1.5
577 nm	312	0.20	+/- 1.5
600 nm	316	0.26	+/- 1.5
700 nm	314	0.23	+/- 1.5

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System Check Results – CHK Lot No: BB0337

Parameters	Results		Range	
	Mean	SD	Mean	SD
Reagent 1	393.94	1.88	390 +/-12	< 3.8
Reagent 2	396.00	1.28	390 +/-12	< 3.8
Sampler	39.48	0.16	39.0 +/-2	< 0.8

Temperature		
Cuvette	36.7 °c	37.0°c +/- 0.2
HM	43.0 °c	43.0°c +/- 1.0
Regent Tray	4.9 °c	2°c to 8°c

The instrument is working satisfactorily, subsequent to Calibrations of the above parameters, and the Next Calibration is due in the month of July 2023

Note: Absorbance kit is an USFDA approved kit used in performing the system check in all Dimension systems. The carton value is a predetermined value for which the limits are defined in system check screen and operator guide of Dimension.

Next Calibration will be performed on 11st July 2023

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Jagannath Choudhary
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