



C.1.4. REPAIRS AND CALIBRATION.



UNIVERSITY OF SOUTHERN MINDANAO
Kabacan, Cotabato
Philippines

CALIBRATION PLAN FOR LABORATORY EQUIPMENT

COLLEGE OF VETERINARY MEDICINE (CVM) CENTRAL LABORATORY

QUANTITY	NAME OF EQUIPMENT	(Year 2022)		(Year 2023)		(Year 2024)		(Year 2025)		(Year 2026)	
		1 st Sem	2 nd Sem	1 st Sem	2 nd Sem	1 st Sem	2 nd Sem	1 st Sem	2 nd Sem	1 st Sem	2 nd Sem
1	Teaching microscope with 3 heads		Yellow		Green		Green		Green		Green
1	Photomicroscope		Yellow		Green		Green		Green		Green
1	Hematocrit Centrifuge		Yellow		Green		Green		Green		Green
1	Oven		Red		Blue		Blue		Blue		Blue
1	Biological Olympus microscope		Yellow		Green		Green		Green		Green
1	Analytical Balance (DENVER)		Red		Blue		Blue		Blue		Blue
1	Bacterial Incubator (EHRET)		Yellow		Green		Green		Green		Green
1	Bacterial Incubator (WTB Binder)		Red		Blue		Blue		Blue		Blue
1	pH meter (DENVER)		Yellow		Green		Green		Green		Green
2	Liquid-in Gas Thermometer (Mercury-filled)		Red		Blue		Blue		Blue		Blue
3	Liquid-in Gas Thermometer (SMIC)		Red		Blue		Blue		Blue		Blue
3	Pipette (Pyrex)		Red		Blue		Blue		Blue		Blue
2	Pipette (Huawei)		Yellow		Green		Green		Green		Green
1	Auto Hematology Analyzer		Yellow		Green		Green		Green		Green
10	CX21LED		Yellow		Green		Green		Green		Green
	CX21LED		Yellow		Green		Green		Green		Green

	CX21LED								
	CX21LED								
	CX21HAL								
	CX21HAL								
	CX21HAL								
	CX21HAL								
	CX21HAL								
	CH20								
2	SZ51-LDGI								
	SZ51-LDGI								
2	CX21 Trino w/ Camera								
	CX31 w/ 3 Headers								
1	CX21LED								
1	Powercord								
2	CX21LED								
	EYESHADE for C3X-10X/20								
1	CX21LED EYE SHADE for C3X-10X,20								
2	CX21LED EYE SHADE for C3X-10X/20								
1	EL BASE								
1	Powercord								
2	CX21HAL EYE SHADE for C3X-10X/20								
1	FILTER for C20-CD								

1	CX21HAL PCB ASSY for CX21		Yellow		Green		Green		Green		Green
2	EYESHADE for C3X-10X/20 CX21HAL		Yellow		Green		Green		Green		Green
1	STAGE for CX21FS1(T3) SCREW HL13X4SA SZ51-LGDI Double interlock; light guide for SZ2-LGB (Made in Vietnam)		Yellow		Green		Green		Green		Green
16	Anti-mold Tablet		Yellow		Orange		Orange		Orange		Orange

Legend:

Yellow - canvassed, got a quotation, on process

Red - calibrated with calibration certificate

Blue - for calibration in May 2025 (canvass & Purchase Request to be processed)

Green - for maintenance & repair (canvass & Purchase Request to be processed)

Orange - to purchase new ones (canvass & Purchase Request to be processed)

White - calibration - as the need arises



UNIVERSITY OF SOUTHERN MINDANAO
Kabacan, Cotabato
Philippines

EQUIPMENT MAINTENANCE RECORD

EQUIPMENT NAME	Axio Microscope	Model	15251 - Leo
Date Acquired	December 2, 2011	Maker/Brand	Olympus
Source of Fund	2011-05-11-00044-00-01-15-12	Identification	#47
	<input type="checkbox"/> DOST	Serial Number	06775 property #233-003
	<input type="checkbox"/> Lab Fee	Classification	<input checked="" type="checkbox"/> Monitoring <input type="checkbox"/> For Calibration <input type="checkbox"/> For Repair

Mic. #48 at the back

NAME OF LABORATORY: CVM CENTRAL LABORATORY

DATE	MAINTENANCE/TROUBLE HISTORY	ACTION TAKEN	CORRECTED BY:
July 2024	Maintenance	Cleaning	Analisa R. Evangelista
Aug. 2024	Maintenance	Cleaning	Analisa R. Evangelista
Sept. 2024	Maintenance	Cleaning	Analisa R. Evangelista
Oct. 8, 2024	Maintenance	Cleaning	Analisa R. Evangelista
Nov. 4, 2024	Maintenance	Cleaning	Analisa R. Evangelista
Dec. 2024	Maintenance	Cleaning	Analisa R. Evangelista
Jan. 2025	Maintenance	Cleaning	Analisa R. Evangelista
Feb. 2025	Maintenance	Cleaning	Analisa R. Evangelista
March 2025	Maintenance	Cleaning	Analisa R. Evangelista
April 2025	Maintenance	Cleaning	Analisa R. Evangelista
May 2025	Maintenance	Cleaning	Analisa R. Evangelista
June 2025	Maintenance	Cleaning	Analisa R. Evangelista
July 2025	Maintenance	Cleaning	Analisa R. Evangelista
Aug. 2025	Maintenance	Cleaning	Analisa R. Evangelista
Sept. 2025	Maintenance	Cleaning	Analisa R. Evangelista
Oct. 2025	Maintenance	Cleaning	Analisa R. Evangelista
Nov. 2025	Maintenance	Cleaning	Analisa R. Evangelista
Dec. 2025	Maintenance	Cleaning	Analisa R. Evangelista
Jan. 2026	Maintenance	Cleaning	Analisa R. Evangelista
Feb. 2026	Maintenance	Cleaning	Analisa R. Evangelista
March 2026	Maintenance	Cleaning	Analisa R. Evangelista
April 2026	Maintenance	Cleaning	Analisa R.

Prepared by: *Analisa R. Evangelista*
ANALISA R. EVANGELISTA



CALIBRATION CERTIFICATE

Request Reference No. **R11-052022-MET-0751** Date Submitted **August 15, 2022**
 Sample Code **MET-01229** Date of Calibration **October 28, 2022**
 Calibration Item **LIG THERMOMETER**
 Make/Model **None / None** Range or Capacity **-10 to 110 °C**
 Serial No. **None** Graduation **1 °C**
 Submitted by **UNIVERSITY OF SOUTHERN MINDANAO-COLLEGE OF VETERINARY MEDICINE**
 Address **Bai Matabay Plang Avenue, Poblacion, Kabacan, North Cotabato**

CALIBRATION RESULTS

Test Point	Standard Reading	Averaged Sample reading	Uncertainty of Measurement	Coverage Factor, k
0 °C	-0.33 °C	-0.10 °C	1.11 °C	1.96
10 °C	9.75 °C	10.00 °C	1.08 °C	1.96
20 °C	19.85 °C	20.00 °C	1.08 °C	1.96
30 °C	29.89 °C	30.00 °C	1.09 °C	1.96
40 °C	40.08 °C	40.00 °C	1.08 °C	1.96
Environmental Conditions	Temperature	(22.5 ± 2.5) °C		
	Relative Humidity	(55 ± 10) % RH		
	Atmospheric Pressure	(1013.5 ± 20) hPa		

UNCERTAINTY OF MEASUREMENT

Uncertainty stated is the expanded uncertainty obtained by multiplying the standard uncertainty by the coverage factor k. It has been determined in accordance with the "Guide to the Expression of Uncertainty (GUM)". The value of the measurement lies within the assigned range of values with a probability of 95%.

STANDARDS USED AND TRACEABILITY

Name of Standard	Make / Model	Reference Number	Traceability
Probe w/ Readout (serial # 3480226)	FLUKE / 1524	05 - 2021 - DT - 0080	Traceable to the SI unit as maintained by NML, ITDI-DOST

CALIBRATION PROCEDURE

Calibration method is in accordance with DOST RSTL-Davao CAL-CM-017 - "Calibration of Thermometers".

MEASUREMENT CONDITIONS

The sample and the standard were acclimatized to the environmental conditions for at least 24 hours prior to calibration.

REMARKS

- The above results were those obtained at the time of calibration and refer only to the particular samples submitted, however, should the item be modified or damaged in any way, or develop inconsistent readings, the results may not be valid and the unit will require recalibration. No adjustments were performed on the samples. The user should determine suitability of the samples for its intended use.
- This report shall not be reproduced except in full, without the written approval of the laboratory.

Calibrated By:

GRETCHEN P. CUEVAS
 Laboratory Analyst

Reviewed / Checked By:

BENJAMIN V.D. ESTRELLADO JR., PME
 Laboratory Analyst

Approved for Release By:

BENJAMIN V.D. ESTRELLADO JR., PME
 DOST RSTL-Davao Laboratory Head

RSTL XI-WI-015F22
 Revision 0
 11-Feb-19

Orig. Copy



CALIBRATION CERTIFICATE

Request Reference No. : **R11-052022-MET-0742** Date Submitted : May 24, 2022
 Sample Code : MET-01216 Date Calibrated : May 24, 2022
 Calibration Item : **Digital Balance***
 Make/Model : Denver Instrument / MXX-612 Capacity : 610 g
 Serial Number : 21654687* Readability : 0.01 g
 Calibrated at (On-site) : Microbiology Laboratory Room Actual Scale Interval, d : 0.01 g

Submitted by : **UNIVERSITY OF SOUTHERN MINDANAO - COLLEGE OF VETERINARY MEDICINE***
 Address : Bai Matabay Plang Avenue, Poblacion, Kabacan, North Cotabato*

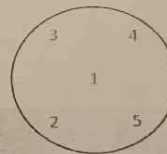
CALIBRATION RESULTS

REPEATABILITY: Test Load: 200 g

ECCENTRICITY: Test Load: 200 g

Trial	Indication (g)
1	200.05
2	200.05
3	200.06
4	200.05
5	200.06
6	200.04
7	200.05
8	200.05
9	200.04
10	200.04

Position	Indication (g)	Error (g)
1	200.05	
2	200.03	-0.02
3	200.04	-0.01
4	200.05	0.00
5	200.04	-0.01
1	200.05	



- 1- Center
- 2- Front Left
- 3- Back Left
- 4- Back Right
- 5- Front Right

Standard Deviation : 0.01 g

ERRORS OF INDICATION:

Test Load (g)	Standard Mass Used (g)	Balance Indication (g)	Error (g)	Coverage Factor, k	Expanded Uncertainty (g)
0	0.00	0.0000	0.0	0.00	0.0000
50	49.999480000	50.0000	0.00	1.99	0.0098
100	99.999100000	100.0200	0.02	1.98	0.011
200	199.998100000	200.0500	0.05	1.97	0.015
400	399.996940000	400.0800	0.08	1.98	0.025
500	499.996040000	500.1200	0.12	1.98	0.030



CALIBRATION CERTIFICATE

Request Reference No.	R11-052022-MET-0742	Date Submitted	May 24, 2022
Sample Code	MET-01217	Date Calibrated	May 24, 2022
Calibration Item	Oven		
Make/Model	WTC Binder / None	Resolution	5 °C
Serial No.	None	Calibrated at	Diagnostic Laboratory

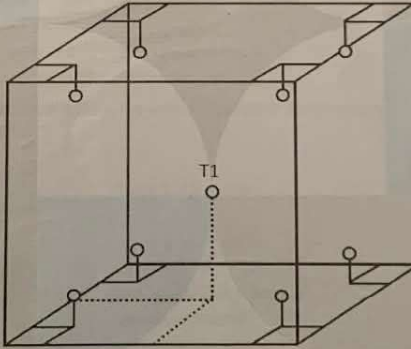
Submitted by **UNIVERSITY OF SOUTHERN MINDANAO - COLLEGE OF VETERINARY MEDICINE**
Address **Bai Matabay Plang Avenue, Poblacion, Kabacan, North Cotabato**

CALIBRATION RESULTS

Chamber Temperature Controller/Indicator (°C)		Mean Reading at each Measurement Location, (°C)	Uncertainty (°C)
Test point	Ave. Reading	T1	± 8.40
50	50	63.55	

SKETCH OF EUT

CHAMBER STABILITY ± 4.76°C
CHAMBER UNIFORMITY 0.00°C
OVERALL VARIATION 9.51°C



UNCERTAINTY OF MEASUREMENT

Uncertainty stated is the expanded uncertainty obtained by multiplying the combined standard uncertainty by the coverage factor $k = 1.97$. It has been determined in accordance with the "Guide to the Expression of Uncertainty (GUM)". The value of the measurand lies within the assigned range of values with a probability of 95%.



OMNIBUS
BIO-MEDICAL SYSTEMS, INC.

4th Flr. Wilson Corporate Center
225 Wilson St., Greenhills, San Juan City, Metro Manila, Philippines
Tel. No.: 8722-4607 / 8727- 1058; Fax No.: 8722-4605
Hotlines: 0925.8811685 / 0917.8111685
Email: service@omnibus.ph / Website: www.omnibus.ph

Nº 110037560

SERVICE REPORT

CLIENT DETAILS		TICKET NO. 20230605-70	
Company: UNIVERSITY OF SOUTHERN MINDANAO	Department: WORLD AID PROJECT COLLEGE OF VET. MED		
Contact Person: DR. ELIZABETH MOLINA	Tel. No./s.: 09985658680		
Address: KASACAN, NORTH COTABATO	Fax No.:		

PRODUCT DETAILS		Serial No./s.: 3A02183	
Model: 9251	Quantity: 1	Attachment: Serial No./s.:	
<input checked="" type="radio"/> Warranty	<input type="radio"/> Installation	<input checked="" type="radio"/> Preventive Maintenance	<input type="radio"/> Check-up
<input type="radio"/> Out of Warranty	<input type="radio"/> Training	<input checked="" type="radio"/> Calibration	<input type="radio"/> Repair
		<input type="radio"/> Pull-out	<input type="radio"/> Others

Complaints:

FINDINGS				ACTION TAKEN		
Eyepiece:	<input checked="" type="radio"/> Dusty	<input type="radio"/> Stain	<input type="radio"/> Blurred	<input checked="" type="radio"/> Cleaned	<input type="radio"/> Aligned	<input checked="" type="radio"/> Checked Alignment
	<input type="radio"/> Scratch/es		<input type="radio"/> Penetrated by Fungus	<input type="radio"/> Others		
Observation:	<input checked="" type="radio"/> Dusty	<input type="radio"/> Broken	<input type="radio"/> Blurred	<input checked="" type="radio"/> Cleaned	<input type="radio"/> Aligned	<input checked="" type="radio"/> Checked Alignment
	<input type="radio"/> Misalign		<input type="radio"/> Penetrated by Fungus	<input type="radio"/> Others		
Objective:	<input type="radio"/> Dusty	<input type="radio"/> No Spring	<input type="radio"/> Oily	<input checked="" type="radio"/> Cleaned	<input checked="" type="radio"/> Check Parfocality	
N/A	<input type="radio"/> Blurred	<input type="radio"/> Stock-up	<input type="radio"/> Others	<input type="radio"/> Others		
Mechanical Stage:	<input checked="" type="radio"/> Dusty	<input type="radio"/> Dirty	<input type="radio"/> Oily	<input checked="" type="radio"/> Cleaned	<input type="radio"/> Aligned	<input checked="" type="radio"/> Checked Mech. Parts
	<input type="radio"/> Others			<input type="radio"/> Others		
Condenser Stage:	<input checked="" type="radio"/> Dusty	<input type="radio"/> Broken	<input type="radio"/> Oily	<input checked="" type="radio"/> Cleaned	<input type="radio"/> Centered Kheeler Illumination	
	<input type="radio"/> Others			<input type="radio"/> Others		
Electrical Stage:	<input checked="" type="radio"/> Functional	<input type="radio"/> No Power		<input checked="" type="radio"/> Checked Electrical Circuit	<input type="radio"/> Replaced / Installed Bulb	
	<input type="radio"/> Others			<input type="radio"/> Others		
Accessories:						

RECOMMENDATION / PARTS REPLACEMENT FOR QUOTATION / REMARKS	CLIENT OVERALL FEEDBACK																									
<p>CONDUCTED PMS & CALIBRATION</p> <p>OCULUSES HAVE BEEN CLEANED</p> <p>MCH. PARTS CHECKED</p> <p>BODY FRAME CLEANED</p>	<p>We value your feedback! Please check if you are satisfied with our performance:</p> <table border="0"> <tr> <td></td> <td>YES</td> <td>NO</td> </tr> <tr> <td>Are you satisfied with the quality of our product?</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Was the service representative professional, courteous, helpful, and knowledgeable?</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Were you given ease and availability of service offered by our company?</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Would you recommend our products/services to other potential client?</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </table> <p>Rate your overall satisfaction with the service performance:</p> <table border="0"> <tr> <td>Poor</td> <td>Fair</td> <td>Good</td> <td>Very Good</td> <td>Excellent</td> </tr> <tr> <td><input type="checkbox"/> 1</td> <td><input type="checkbox"/> 2</td> <td><input type="checkbox"/> 3</td> <td><input type="checkbox"/> 4</td> <td><input checked="" type="checkbox"/> 5</td> </tr> </table>		YES	NO	Are you satisfied with the quality of our product?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Was the service representative professional, courteous, helpful, and knowledgeable?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Were you given ease and availability of service offered by our company?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Would you recommend our products/services to other potential client?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Poor	Fair	Good	Very Good	Excellent	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input checked="" type="checkbox"/> 5
	YES	NO																								
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Poor	Fair	Good	Very Good	Excellent																						
<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input checked="" type="checkbox"/> 5																						

<p><i>[Signature]</i> MAYEL RUIZ ALMENDRA OBMS Technical Support Representative (Signature over Printed Name)</p> <p>4-24-24 Date Signed</p>	<p>I hereby acknowledge the above service rendered.</p> <p>Time Started: _____ Time Finished: _____</p> <p><i>[Signature]</i> ANALISA EVANGELISTA Authorized Representative (Signature over Printed Name)</p> <p>4/24/24 Date Signed</p>
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Should you have any questions, please feel free to contact us at the following numbers: 8727.1058, 8722.4607, fax number: 8722.4605 or hotline numbers: 0917-8111685, 0925-8811685 or email us at service@omnibus.ph

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OBMS-FM-SV-001 Rev. No. 2

Handwritten notes: Follow NS and only work - bt



CAMPROCK ANALYTIKA EZZENTIALEZ TRADING

University of Southern Mindanao
College of Veterinary Medicine
Kabakan, Cotabato

March 17, 2020

RE : Schedule of Preventive Maintenance of Various Laboratory/Scientific Equipment for 2020
Attn : Dr. Lilian A. Lumbao
Laboratory-in-Charge, CVM

Ma'am,

Good day, we are writing this letter to notify you that the scheduled preventive maintenance for the above mentioned will be postponed due to the travel restrictions brought about by the pandemic and the implemented nationwide lockdown/enhanced community quarantine to comply with the IATF guideline.

We are requesting for your consideration that we will reschedule the preventive maintenance until the situation clears. We assure you that once that we will prioritize to provide the necessary service as soon as we can, but for now we have to limit sending our personnel to work on site for safety of everyone.

Thank you and we look forward to receiving your positive response. Stay safe and God bless.

Very truly yours,

Zaldy E. Villenas
Sales and Marketing Manager
CP#09165756218

"Supplier of Quality Technology and Research Equipment"

Office Address: 1255 Miramonte, Subdivision Tinamnan, Lucban, Quezon
Mobile No: +639165756218 * +639276423222
Phone No: (+63) 42 - 540 - 6575
E-mail: analytika_trading@yahoo.com.ph

