

# PROCESS ENGINEER INTERN PRESENTATION

Summer '25 Internship | Lola Olosu

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# bioMérieux Overview



Iterated in 1897: Marcel Mérieux → Founded in 1963: Alain Mérieux

★ Headquartered in Marcy-l'Étoile, France



**Industry:** Medical Device & In Vitro Diagnostics

**Focus:** Developing diagnostic tests that detect infectious diseases, track antimicrobial resistance, and ensure food and pharmaceutical safety



Notable Systems & Devices: BACT/ALERT Bottles, VITEK®, VIDAS®, and FilmArray® platforms

**Mission:** “Improving public health worldwide through in vitro diagnostics.”



→ 14,000+ employees

→ **Global Reach:** Present in 45+ countries, serving 160+ worldwide

# GOALS FOR INTERNSHIP

## Increased Technical Experience



- ❖ Have technical background
- ❖ Want that experience applied to industry
- ❖ Connect product work with instrumentation

## Exposure to Medical Device



- ❖ Learn the regulations and processes of medical device

## Build a professional network



- ❖ Network individually not just with people in my department
- ❖ Follow up meaningfully



# LAB INSTRUMENTS

Hall Effect Sensor



Bottle UV Imaging Instrument



Fourier-Transform  
Infrared Spectroscopy



Blood Culture Identification  
System



High Performance Liquid  
Chromatography



# PROJECTS AND INVOLVEMENT

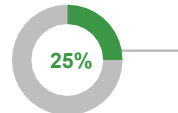
## A Little Bit of Everything

**Lab Testing**  
FTIR, HPLC, BCID, Hall Effect Sensor,  
etc.



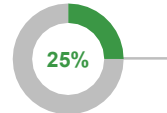
### Authoring Technical Assessments

Drafted TAs for expiry extensions, investigations, and raw material justifications



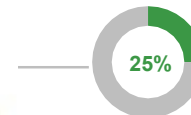
### Assisting with Line Studies and Site Projects

Line 4 Study - Tested different levels of Nylon Voids  
Line 5 Study - Shadowed Line 5 studies of PQs and tests  
IEDCO/Chemweigh 2nd test assistance



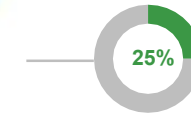
### Contributing to Investigations

Assisted team members with the manual labor of investigations



### Product Securitization/Justification

Alternate vendor/materials qualification





# TECHNICAL ASSESSMENTS

A technical assessment is a structured memo that recommends or explains a process or piece of equipment. They should be a summary of information rather than experimental procedures.

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Industrialization Technical Assessment

Assessment Number: I-TA-0921

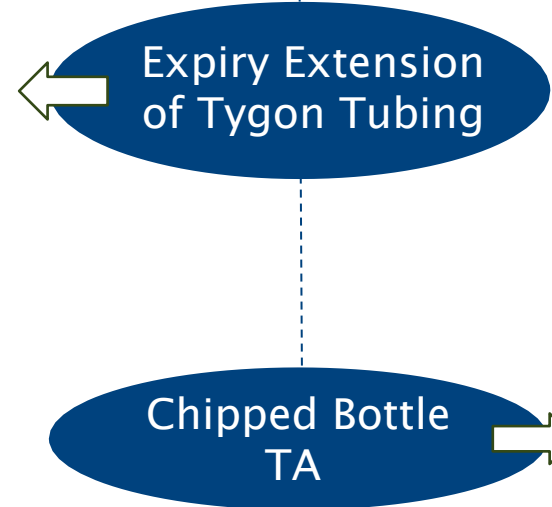
Justification for Expiration Date Extension for Tygon Tubing (P/N ACF00053-V) for Use in Ancillary Water Systems


Revision History				
Revision	Version Date	Author	Section Updated	Revision Description
1	Date of Final Approval	Jackson Edwards & Lola Olosu	All	New document


Document Approval			
Department	Name	Signature	Date
Industrialization			
Industrialization			

cf. PDF Signatures



	Industrialization Technical Assessment	I-TA-0930 Revision: 1 Page 1 of 5
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Industrialization Technical Assessment

Assessment Number: I-TA-0930

Assessment of Chipped Bottle Defect in BACT/ALERT SA/BPA (Fill Lot 1063539) and SN/BPN (Fill Lot 1063523)

Revision History				
Revision	Version Date	Author	Section Updated	Revision Description
1	Date of Final Approval	Lola Olosu	All	Original

Document Approval			
Department	Name	Signature	Date
Industrialization			
Industrialization			

cf. PDF Signatures

# INVESTIGATIONS

Uncapping Bottles → Assessing  
Bottle Rims for Chips → Chipped  
Bottle Technical Assessment



Checking Zone 5 under UV Light →  
Cutting Bottles Open → Separating  
Polycarbonate and Nylon Layers  
→ Line 4 Study

Chipped  
Bottle  
Example



Nylon Void  
Study





# KEY TAKEAWAYS/ADVICE

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Thank you!



### **Acknowledgements**

Caitlin McKenna • Errol Purkett • Alexander Earle • Vilavia Williams • Jason Shriver • Drew Salsburg • Mohammed Dorgham • Maria Chi • Kylie Tirado • Scott Jourdan • Justine Happel • Chuck Geddie • Adrienne Huntress • Rahul Dheer • John Fashuyi • Shelia Williams • Todd Willis • Dylaina Fiebing • Nate Pickett • Anne Norris • Chris Phillips • Serena McClarin • Kelsey McKay • Sophy Nthiga • Ben Likens • Colin Frazier  
And More!

# ABOUT ME

Lola Olosu

Process Engineer Intern - Production Analytics

**Master of Microbial Biotechnology**

Rising Second Year Grad

Student Undergrad: Chemistry & Health and Medical Humanities



## Experience

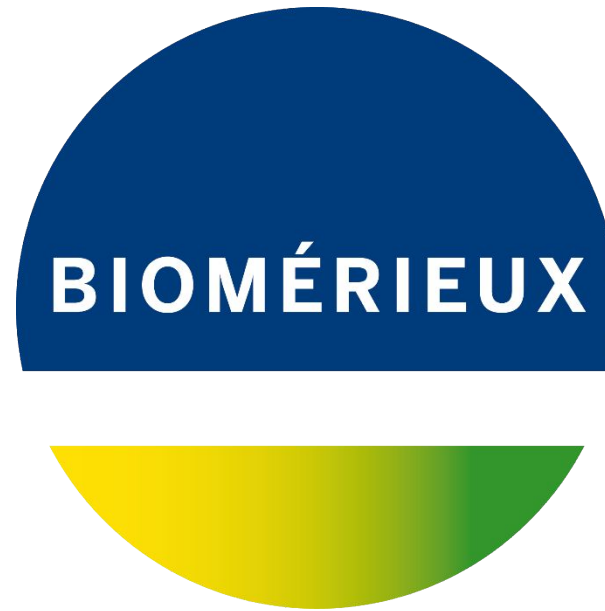
Clinical Public Health Intern - Charlotte,  
NC Business Strategy Intern - Charlotte,  
NC Biotech Consultant - NC State



## Career Aspirations

Remain in Biotech, Product/Process  
Development  
Clinical Research





PIONEERING     DIAGNOSTICS

# TA MATRIX

LLDC #	Part Number	Description	Joint Technical Assessment	Expiry Technical Assessment	Storage Technical Assessment	Risk Assessment	Material Type	Formula	Formula Weight	CAS#	Manufacturer	Manufacturer P/N
006999	9300188	Nicotinic Acid	<a href="#">I-TA-0777</a>			<a href="#">PRA-2019-001</a>	Chemical	C <sub>6</sub> H <sub>5</sub> NO <sub>2</sub>	123.11	59-67-6	N/A	YY2454
006999	9300188	Nicotinic Acid	<a href="#">I-TA-0802</a>			<a href="#">PRA-2019-001</a>	Chemical	C <sub>6</sub> H <sub>5</sub> NO <sub>2</sub>	123.11	59-67-6	airgas national welders	119061
007001	9300190	Pantothenic Acid	<a href="#">I-TA-0823</a>			<a href="#">PRA-2023-010</a>	Chemical	C <sub>18</sub> H <sub>32</sub> CaN <sub>2</sub> O <sub>10</sub>	476.5	137-08-6	TCI America	P0012/Z2638
007001	9300190	Pantothenic Acid	<a href="#">I-TA-0783</a>			<a href="#">PRA-2023-010</a>	Chemical	C <sub>18</sub> H <sub>32</sub> CaN <sub>2</sub> O <sub>10</sub>	476.5	137-08-6	Sigma-Aldrich	21210
007001	9300190	Pantothenic Acid	<a href="#">I-TA-0823</a>			<a href="#">PRA-2023-010</a>	Chemical	C <sub>18</sub> H <sub>32</sub> CaN <sub>2</sub> O <sub>10</sub>	476.5	137-08-6	Spectrum	CA159
007004	9300194	Final Filter, BNA045F01BA		<a href="#">I-TA-0491</a>		N/A	Manufacturing Consumable	N/A	N/A	N/A	Solventum Purification Inc. 3M Purification Inc.	BNA045F01BA
007005	9300195	GAS CYLINDER-50%O2-20%CO2-30%N2		<a href="#">I-TA-0292</a>		N/A	Chemical	N/A	N/A	N/A	Airgas National Welders	X03OX50C200C001
007268	233766	BacT/ALERT Subculture Units		<a href="#">I-TA-0720</a>		N/A	OEM	N/A	N/A	N/A	Remel	N/A
007269	259662	BTA Generic Barcode Labels		<a href="#">I-TA-0814</a>		N/A	OEM	N/A	N/A	N/A	CCL Label, Inc.	N/A
007271	259787	BacT Alert Reseal		<a href="#">I-TA-0720</a>		N/A	OEM	N/A	N/A	N/A	RR Donnelley	N/A
007283	279102	BLOOD CULTURE KIT STANDARD	<a href="#">I-TA-0354</a>			<a href="#">BMX.1.038479</a>	OEM	N/A	N/A	N/A	AERO-MED MEDICAL INC.	N/A
007333	20-00098	Vial, 78 cc Serum BacT/ALERT Plastic	<a href="#">I-TA-0550</a>			N/A	Component	N/A	N/A	N/A	Amcor	20-00098
007333	20-00098	Vial, 78 cc Serum BacT/ALERT Plastic	<a href="#">I-TA-0550</a>			N/A	Component	N/A	N/A	N/A	Berry Global	20-00098
007333	20-00098	Vial, 78 cc Serum BacT/ALERT Plastic	<a href="#">I-TA-0550</a>			N/A	Component	N/A	N/A	N/A	Technimark, LLC	20-00098

034556 QA Supplier Index + Related Raw Material Technical Assessments and Risk Assessments