



NAME:	Valerie L. Coronado	DATE:	8/30/2022
LABORATORY:	Houston Forensic Science Center		
JOB TITLE:	Forensic Scientist - Toxicology		

Indicate all disciplines in which you do casework:

<input type="checkbox"/>	Seized Drugs	<input type="checkbox"/>	Forensic Biology/DNA
<input type="checkbox"/>	Crime Scene	<input type="checkbox"/>	Latent Prints
<input type="checkbox"/>	Digital Forensics	<input checked="" type="checkbox"/>	Toxicology
<input type="checkbox"/>	Firearms	<input type="checkbox"/>	Forensic Audio/Video

List all categories or sub-disciplines in which you do casework:

Human Performance Toxicology: Alcohol Analysis, Enzyme-Linked Immunosorbent Assay (ELISA), Drug Screen and Qualitative Confirmation by GC-MS, and Carisoprodol/Meprobamate Confirmation by GC-MS
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Texas Forensic Science Commission (TFSC) Licensing

Per TFSC section 651.203, starting January 1, 2019, the following disciplines are subject to licensing: Seized Drugs, Toxicology, Forensic Biology & Firearms/Toolmarks. If applicable, select the type of license issued by TFSC (Select N/A if not applicable):

Type of License:	Toxicologist (Interpretative)
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Certifications:

Organization	Discipline	Type/Level (N/A if not applicable)
N/A		

Education:

List all higher education institutions attended (list high school if no college degree has been attained)

Institution	Dates Attended	Major	Type of Degree Earned
Sam Houston State University	August 2012-May 2016	Chemistry	Bachelor of Science
Sam Houston State University	August 2016-May 2018	Forensic Science	Master Degree

Other Training:

List continuing education, workshops, in service, and other formal training received. Please include the course title, source, and dates of training.

Forensic Science Internship , Houston Forensic Science Center (May 2017-August 2017) Introduction to Uncertainty in Forensic Chemistry and Toxicology , RTI International (February 20, 2018) SOP Writing for ISO 17025 Accreditation , RTI International (March 20, 2018) Forensic Pharmacology , The Center for Forensic Science Research and Education (November 5-7, 2018)



The Robert F. Borkenstein Course of Alcohol and Highway Safety: Testing, Research and Litigation, Indiana University (December 2-7, 2018)
Introduction to Liquid Chromatography-Mass Spectrometry/Mass Spectrometry with applications to Forensic Chemistry, Houston Forensic Science Center (December 3, 12-13, and 17, 2019)
Cannabis Impaired Driving: Where Are We In 2020?, Society of Forensic Toxicologists (September 22, 2020)
GC-MS and LC-MS/MS Method Development – A Step by Step Guide, Society of Forensic Toxicologists (September 24, 2020)
Impaired Driving During the COVID Pandemic, Southwestern Association of Forensic Scientists (October 13, 2021)
2021 Cannabinoids: Legal Cannabis and Edibles While Driving, Southwestern Association of Forensic Scientists (October 13, 2021)
Blood Alcohol: Opportunities and Challenges in the Analytical Process, Quality, Interpretation, and Testimony, Southwestern Association of Forensic Scientists (October 14, 2021)
Introduction to Pharmacology, Houston Forensic Science Center (January 19, 2022)

Courtroom Experience:

List the disciplines/sub-disciplines in which you have testified as an expert witness and indicate over what time period and approximately how many times you have testified in each.

Discipline or Sub-Discipline	Time Period	Times Testified
Alcohol Analysis	February-August 2022	5

Professional Affiliations:

List any professional organizations of which you are or have been a member. Indicate any office(s) or positions held and the dates of these activities.

Organization	Member Status & Position(s) Held	Dates of Membership
Society of Forensic Toxicologists	Full Member	October 2020-Present

Employment History:

List all scientific or technical positions held, particularly those related to forensic science. List current position first. Be sure to indicate employer and give a brief summary of duties. Please list your dates of employment by month and year.

Job Title:	Forensic Analyst	Dates of Employment:	June 4, 2018-Present
Employer:	Houston Forensic Science Center		

Provide a brief description of duties below:

Perform alcohol analysis on blood and liquid samples, drug screening by enzyme-linked immunosorbent assay (ELISA) on blood and urine samples, drug screen and qualitative confirmation analysis by GC-MS on blood and urine samples, and carisoprodol/meprobamate confirmation analysis by GC-MS on blood and urine samples. Review analytical data, write technical reports for alcohol, ELISA, and GC-MS methods, provide court testimony on results and interpretation for alcohol analysis, ELISA drug screening, and GC-MS analysis. Perform technical and administrative review for alcohol reports; perform technical review for ELISA and drug screen and qualitative confirmation analysis by GC-MS batches.



Other Qualifications:

List below any scientific papers authored or co-authored and/or scientific presentations given, research in which you have been involved, academic or teaching positions you have held, and any other information you consider relevant to your qualification as a forensic scientist.

Academic/Teaching Positions:

Graduate Research Assistant, Sam Houston State University, January 2017-May 2018

- Teaching Assistant for Crime Scene Investigation course
- Prepared laboratory for DNA and toxicology courses

Research Assistant, Sam Houston State University, June 2015-May 2016

- Analyzed samples using HPLC and GC-MS instrumentation
- Interpreted data from drug developmental studies

Research Experience:

Heated Headspace SPME coupled with GC-MS for the Screening of Residual Emerging Psychoactive Compounds in the Oral Cavity, MSFS Second Year Capstone Research Project, August 2017-May 2016

Method Development and Optimization for Detection of a Novel Cyanide Antidote in Brain by GC-MS and *in vivo* investigations (efficacy and pharmacokinetics) with a New Cyanide Antidote, Undergraduate Research Projects, June 2015-May 2016