

**Element Materials Technology Minneapolis - Eagan** 

Dear Valued Client,

Due to the large volume of supplier surveys Element Materials Technology receives each year from its Clients and in order to provide you with the most complete information to assist you in your evaluation of Element Materials Technology, this Quality Information Packet has been assembled in the place of completing the questionnaire you have sent. Included in this packet are the following:

- Quality Systems Procedures Index
- Regulatory Overview Document
- Organizational Chart
- Facility Map

Additionally, the following documents can be made available upon request:

- Copies of Specific Standard Operating Procedures (SOPs)
- Quality Manual

If there is any additional information you require to complete your evaluation of our facility, please do not hesitate to contact me.

Best Wishes,

Cody Ganz
Quality Assurance Manager
Element Materials Technology
1285 Corporate Center Drive, Suite 110
Eagan, MN 55121
651.379.5517 (Direct)
651.379.5549 (Fax)
cody.ganz@element.com



### GENERAL FACILITY AND QUALITY SYSTEM INFORMATION

General Information		
Company Name	Element Materials Technology Minneapolis - Eagan	
Address of Facility	1285 Corporate Center Drive, Suite 110 Eagan MN 55121	
Phone Number	877-287-8738	
Fax	651-379-5549	
Website	www.element.com	
Services Provided	Full range of microbiology, virology, chemistry and bioaerosol testing	
Number of Permanent	~35	
Employees		
Number of Quality	4	
Employees		
Years in Business	30+	
Type of Business	Privately Owned	
Federal Tax ID	81-3510615	

Key Personnel Information			
Name	Title	Email	
Divisional Director	Maciej Jakuki	maciej.jakuki@element.com	
General Manager	Nick Hibbard	nick.hibbard@element.com	
Quality Assurance Manager	Cody Ganz	cody.ganz@element.com	
Operations Manager	Shanen Conway	shanen.conway@element.com	
Technical and Regulatory Manager	Nicole Felicelli	nicole.felicelli@element.com	

Quality Assurance Information				
Name and Title of QA Manager	Cody Ganz, Quality As	Cody Ganz, Quality Assurance Manager		
Telephone Number	651-379-5517			
Email Address	cody.ganz@element.c	om		
Reports to	Patrick Tierney, Quality Manager II			
	Nick Hibbard, General Manager			
Number of QA Employees	4			
Quality Agreement signed upon request?  Yes		Yes		
Confidentiality Agreement signed upon request?		Yes		
Audit/facility tour available upon request?  Yes				



Organizational & Personnel Information		
Is there a formal training program?		Yes
Is training performed and documented when SOPs are creat	ed or updated?	Yes
Are changes in EPA, FDA and other regulatory requirements to employees?	s tracked and communicated	Yes
Are employees provided applicable regulatory training during onboarding and at regular intervals?		Yes
Do employees have adequate training, experience, and qualifications for their responsibilities?		Yes
Are employees tested for proficiency?		Yes
Have any personnel been disbarred by the FDA?		No
Do you have an organizational chart? Can you provide a copy?  Yes, a copy is attached to the document.		his
Are there written job descriptions?		Yes

Facility Information		
Total size of facility	25,648 sq. ft.	
Area of facility utilized for office space	9,245 sq.ft.	
Area of facility utilized for testing labs	13,145 sq.ft.	
Area of facility utilized for warehouse	3,258 sq. ft.	
Construction of facility	Single story building	
Is there adequate security to assure that there is no entry by unauthorized persons?	Yes	
Are there provisions for power backup sources for critical systems if main power should fail?	Yes	
Is there a security system in place and SOPs in place and is access to the facility controlled at all times?	Yes	
Is there an appropriate pest control program?	Yes	
Is the facility subject to inspections by regulatory authorities?	Yes	

Regulatory Information			
Recognized External Registration / Certificate Date of			
Authority	Number	Inspection	
U.S. EPA	Not Applicable	March 2023	
U.S. EPA	Not Applicable	December 2019	
U.S. FDA	FEI:3011214111	August 2017	
U.S EPA	Not Applicable	September 2016	
U.S.D.A	Not Applicable	April 2016	
U.S.D.A	Not Applicable	April 2014	
U.S. EPA	Not Applicable	September 2013	
U.S.D.A	Not Applicable	May 2013	
U.S. EPA	Not Applicable	May 2010	
U.S. EPA	Not Applicable	December 2006	



Quality System In	formation		
Responsibilities and Authority			
Do you have any ISO certifications/accreditations? Yes, ISO 17025			
Do you have a quality policy manual?  Yes, available upon request			
Are QA/QC organization's authority and responsibiliti	Are QA/QC organization's authority and responsibilities clearly defined in writing?		
Is there a mechanism to assure that only current test use?		in	Yes
Are data reviewed and trends monitored? Are adverse appropriate management notified?	e trends addressed, and is		Yes
Complaint Har	ndling		
Element Eagan is compliant with U.S. EPA and U.S. FD complaint procedure is not required by either of these regall client complaints per internal procedure ALS-0055, as Change Con	PA GLPs (Good Laboratory Practic gulations. However, Element Eaga required by ISO 17025.		
Is there an adequate system, described in an SOP, for documents, and equipment, and requiring evaluation revalidation?	r controlling changes to method	s,	Yes
Is QA involved in the change control process?			Yes
Is there a system in place to assure that changes are	approved prior to implementation	n?	Yes
Audit Progra			
Do you host customer audits?			Yes
If Yes; How many per year?			5-10
Is there an internal quality audit program that covers all areas of the operation to verify that SOPs and other procedures and policies are being followed, and to determine effectiveness of the quality systems?		Yes	
Based on the audit findings and recommendations, are steps taken to correct any areas of noncompliance? Are corrective actions documented? Is their effectiveness verified in subsequent audits?		Yes	
If any contractors (e.g., laboratories, off-site storage facilities) are used, are they periodically audited, and their performance monitored?		Yes	
Are all suppliers that provide critical materials and/or external calibration services audited/evaluated?		Yes	
Test Sample C	ontrol		
Is there an SOP for receipt, identification, and storage	of incoming test samples?		Yes
How are test samples received?	Test samples are received in per receiving personnel.	son b	у
Is the test sample log-in procedure computerized?			Yes
How are test samples stored?  Test samples are stored in a secured in appropriate storage conditions as in by packaging or client instruction.		indicated on.	
Is there adequate security for stored test samples?			Yes
Is test sample flow tracked?  Yes, Test Substance (Sample) Control procedures.			ontrol
Are test samples reconciled and any discrepancy invocient?			Yes
Is there an SOP controlling retention and/or destruction	on of excess samples?	AL an	r SOPs S-0035 d ALS- 0052



Quality System Information Continued	
Out of Specification Investigation Procedure (OOS)	
The Element Eagan facility is compliant with U.S. EPA and U.S. FDA GLPs (Good Laborato	ory Practices).
A formal Out of Specification procedure is not required by either of these regulations. Howe	ver, Element
Eagan has a laboratory investigation procedure (ALS-0005) in place to investigate and docu	ument all
unexpected test results.	
Is there an SOP for laboratory investigations of unexpected test results to assure	
that a uniform procedure is followed to determine why the unexpected result	
occurred and that corrective actions are implemented when necessary?	
Are clients promptly notified of unexpected and/or out of specification test results?	
Deviation Procedure and Corrective/Preventive Action Procedure (CAPA)	
Is there an SOP for deviations to ensure that a uniform procedure is followed and	Yes
that the impact is appropriately assessed and documented?	
Is there a formal Corrective Action Preventive Action program?	
Are CAPAs evaluated for efficiency?	
Is there a system in place for continuous improvement and management review?	

Do	cument Control Information	
	ard Operating Procedures (SOPs)	
Are there written SOPs for all areas of		Yes
	and updating of SOPs? Are SOPs periodically	Yes
Is a history of SOP revisions maintai	ned?	Yes
Are current SOPs readily available to	employees?	Yes
Is there an adequate system to assure removed from use?	e that unneeded or obsolete documents are	Yes
Is there an SOP for document contro	l?	Yes
If a client's test procedures or specification review and approve the reformatted of	ications are reformatted, does the client document?	Yes
Are procedural changes approved by current version of the SOP is in use?	QA and controlled to ensure that the most	Yes
	Testing Records	
Is appropriate information recorded in tests (ID number, etc.)?	in test records concerning instruments used	Yes
If chromatograms, charts, spectra are there adequate cross-references to the spectra are the s	e stored separate from other test records, are heir locations?	Yes
Are records legible? Are they approp	riately signed and dated where required?	Yes
Are there overwrites, whiteouts, or p	encil entries in official records?	No
	d, dated, and explained based on an SOP that cording data and correcting errors in official	Yes
Are records reviewed for completene	ess before filing?	Yes
Is there appropriate security for data	and records?	Yes
Are raw data/records retained for an		Yes
How long are records retained for?	Paper records are retained for a minimum of 5 year electronic records are maintained indefinitely.	rs and



Operations Information		
Analytical Control of Supplies		
Are appropriate reference standards used and are they stored in a proper manner to ensure stability?	Yes	
Are their expiration dates adequately monitored so they are not used beyond expiration dates?	Yes	
If reference standards are not USP, has appropriate characterization (including purity and stability) been performed?	Yes	
Are reagents adequately controlled and monitored to assure that they are periodically replaced and that old reagents are not used?	Yes	
Are all containers of materials or solutions adequately labeled to determine identity, preparer, and dates of preparation and expiration (if applicable)?	Yes	
Are preparation records maintained, including manufacturer and lot number, preparer, and date?	Yes	
Analytical Testing		
Are there complete written instructions for testing, including methods, equipment, operating parameters, and acceptance specifications?	Yes	
Are test methods readily available to the analysts?	Yes	
Are test methods followed without approved modification?	No	
Is there an SOP describing how numbers are to be rounded?	Yes	
Are data and calculations reviewed, verified, and signed by a second person?	Yes	
Laboratory Cleaning Procedures		
Based on an SOP, is the laboratory cleaned and disinfected?	Yes	
Is there an adequate procedure for disposal of microbiological waste?	Yes	
Are there procedures dictating cross contamination prevention and lab cleaning?	Yes	
Laboratory Control of Supplies		
Are reagents and microbiological media adequately controlled and monitored to assure that they are periodically replaced and that old reagents are not used?	Yes	
Is the first in, first out rule enforced for all incoming materials?	Yes	
Are all containers of materials or solutions adequately labeled to determine identity, preparer, and dates of preparation and expiration (if applicable)?	Yes	
Are preparation records maintained, including manufacturer and lot number, preparer and date?	Yes	
Is an expiration date assigned to prepared media and are prepared media stored at manufacturers' recommended storage temperatures?	Yes	
Is each lot of biological indicators checked for identity and viability?	Yes	
Are positive controls periodically included in autoclave runs?	Yes	
Based on an SOP, is there appropriate control and documentation of stock cultures, including storage, propagation, assurance of purity, and traceability?	Yes	
Laboratory Testing		
Do personnel eat, drink or smoke in the laboratory areas?	No	
Is environmental monitoring and trending performed on a routine basis?	Yes	
Are there complete written instructions for testing, including methods, equipment, operating parameters?	Yes	
Are methods validated (when applicable) based on an SOP?	No	
Are USP methods kept current upon revision?	Yes	
Are test methods readily available to the laboratory technicians?	Yes	
Are test methods followed without approved modification?	No	
Is testing conducted with appropriate technique and in such a manner and place to preclude laboratory contamination of samples?	Yes	
Are controls used for testing? Are their results recorded?	Yes	
Are data and calculations reviewed, verified and signed by a second person?	Yes	



Operations	s Information	
	ty Testing	
Are stability testing methods stability-indicating? If so, have they been validated?  Yes, if requested by the Sponsor. Method validating is product-specific, so every individual product should be validated under its own project.		l product
Is stability testing performed in the marketed container/closure systems according to intervals and tests specified in a written stability program?	Yes, if the Sponsor provides us with the packaged accordingly.	ne product
Is stability testing done on time within the specitest intervals?		Yes
Are stability failures investigated (when unexpedocumented?	,,	Yes
Equipmen	t Information	
	nd Qualification	
Is there an SOP for qualifying new or significant instruments?		Yes
Do qualifications of stability chambers, autoclay temperature distribution studies?		Yes
Is equipment available in sufficient quantity to prequired time frames?		Yes
Are there operational SOPs for all equipment and instruments?		Yes
	and Calibration	
Are there SOPs for inspection and maintenance measuring and testing instruments?		Yes
If so, do SOPs assign responsibilities; including equipment, and materials to be used, including use and standards traceable to national standar tolerances; and require maintenance of records	calibration over actual range of ds, and include specifications and	Yes
Does an SOP specify that equipment cannot be due date, and describe actions to be taken if equipment because the beautiful date or is found to be determined to be determined as a second to b	used if it is beyond the calibration uipment is used that is found to	Yes
Are calibrated instruments labeled with date cal due?		Yes
Is equipment in use observed to be within calibration dating?		Yes
Are periodic verifications performed on analytic weights) to assure that they remain within calibrations?	al balances (using a range of ration in the time between full	Yes
Are records maintained for maintenance and calibration operations?		Yes
Do SOPs assign responsibilities, include sched equipment, and materials to be used, and require		Yes
If instruments malfunction or are determined to taken out of use?	be defective, are they immediately	Yes
Are there SOPs for calibration of equipment and	l instruments?	Yes
Are equipment calibration standards traceable t body?	o N.I.S.T or other certification	Yes



Computerized Systems Information		
List computerized systems used with	MasterControl, Chromeleon	
regulatory implications	MS Office – Excel	
Are these computerized systems validated?	MasterControl and Chromeleon-Yes; systems have been validated to meet requirements of 21 CFR Part 11 and internal standard operating procedures.	
	Excel- all formulas are printed and verified w Also, we have an SOP for validating excel sp	
Netwo	rk Back-up Procedures	
Are suitable backup systems in place, sud duplicate tapes, or microfilm?	ch as copies of programs and files,	Yes
Is the network back-up procedure outlined in an SOP?  Yes		Yes
	Change Control	
Is there a system to control changes to systems and programs?  Yes		
Does the system assure that changes receive the proper review and approval in regard to potential effects before being instituted and that only authorized personnel can make such changes?  Yes		
If necessary, are personnel trained on subsequent changes?  Yes		Yes
Is a record of system and program changes maintained?		Yes
Security		
Is there an appropriate security system to limit access to computerized systems, protect records from tampering, and prevent data alterations?		
If anyone leaves the department or compa access the systems, are there procedures access codes from the system?		Yes



### **QUALITY SYSTEMS PROCEDURES LIST**

SOP Number	Title						
ACS-0001	Overview of Chemistry Techniques						
ACS-0002	Common Calculations in Chemistry						
ACS-0003	Analytical Chemistry Methods Documentation Control and Records Maintenance in MasterControl						
ACS-0004	beling and Expiration of Reagents and Solutions in Chemistry						
ACS-0005	Analytical Method Validation						
ACS-0006	Chemical Characterization and Preliminary Analysis						
ACS-0007	Storage Stability						
ACS-0008	Extraction Procedures for Towelettes and Aerosol Products for Use in Chemistry Testing						
ACS-0009	Empower Chromatography Data Software						
ACS-0011	Agilent 6890 Gas Chromatograph (GC)						
ACS-0012	Use and Care of HPLC and GC Columns						
ACS-0013	Injection Sequence for GC and HPLC Analysis						
ACS-0014	Anton Paar DMA 35 Density Meter						
ACS-0015	Mettler Toledo Titration Excellence T7 Autotitrator						
ACS-0016	Use, Calibration, and Maintenance of Electrodes for the Mettler Toledo Titration Excellence T7 Autotitrator						
ACS-0017	Chromeleon Chromatography Software Overview						
ACS-0018	Running a Sequence in Chromeleon						
ACS-0019	Processing Data in Chromeleon						
ACS-0020	Reporting, Reviewing and Audit Trails in Chromeleon						
ACS-0021	Agilent High Performance Liquid Chromatograph (HPLC)						
ACS-0022	Analytical Chemistry Laboratory Personnel Training, Retraining, and Proficiency Evaluation Procedure						
ACS-0025	Corrosion						
ACS-0027	Odor						
ACS-0029	Oxidation/Reduction: Chemical Incompatibility						
ACS-0030	pH Measurement						
ACS-0031	Physical State						
ACS-0033	Bulk Density of Powders						
ACS-0034	Geometric Density of a Solid Test Substance						
ALS-0001	Personnel Training, Retraining and Competency Evaluation Procedure						
ALS-0002	Training File Contents						
ALS-0003	Procedure for Company Organizational Chart, Personnel Job Descriptions and Curriculum Vitaes						
ALS-0004	Numbering System for Controlled Documents						
ALS-0005	Study Investigation						
ALS-0006	Confirmatory Testing Procedures						
ALS-0007	Format and Content of Controlled Documents						
ALS-0008	Good Documentation Practices						
ALS-0010	Corrective Action / Preventive Action System						
ALS-0011	Documentation Control and Records Maintenance						
ALS-0012	Facility Security and Visitor Identification						
ALS-0013	Facility Inspections						



SOP	Title						
Number							
ALS-0014	Ishihara's Colour-Blindness Test						
ALS-0016	Guidelines for Assay Validation						
ALS-0017	Multi-Site Studies						
ALS-0018	Labeling of Laboratory Reagents and Solutions						
ALS-0019	Measurement Assurance Program						
ALS-0020	tatistical Methods						
ALS-0021	Reporting Significant Digits and Rounding Numbers						
ALS-0022	Safety Training						
ALS-0023	Good Laboratory Practice (GLP) Training Program						
ALS-0024	Personnel Outline for Nonclinical Studies						
ALS-0025	Management and Study Director Responsibilities						
ALS-0026	Exact Copies						
ALS-0027	Reporting Results for Non-Clinical GLP Studies						
ALS-0028	GLP Protocol Requirements						
ALS-0029	Deviations and Protocol Amendments						
ALS-0030	GLP Final Report Amendments						
ALS-0031	Receiving Policies and Procedures						
ALS-0032	Archive Procedures for Documentation Records						
ALS-0033	Preparing Project Files for Archiving						
ALS-0035	Discarding and Returning Substances to Sponsors						
ALS-0039	Design, Validation, and Use of Excel Spreadsheets						
ALS-0040	Preparation of Electronic Data for Archival						
ALS-0041	Maintaining the Master Schedule						
ALS-0045	Quality Manual						
ALS-0046	Warehouse Management and Purchasing of Supplies						
ALS-0047	Use of MFiles Client Document Notification System						
ALS-0050	Certificates of Analysis						
ALS-0051	Project Folder and Test Substance Accountability Record Generation						
ALS-0052	Receipt, Identification and Storage of Test, Control and Reference Substances						
ALS-0053	Test Substance Accountability Record Documentation						
ALS-0054	Repeat Testing						
ALS-0055	Customer Complaints						
ALS-0056	Company Policies at Element Eagan						
ALS-0057	Proficiency Testing						
ALS-0058	Determining Measurement Uncertainty						
CEL-0001	Procedure For Splitting and Producing Continuous Cell Lines						
CEL-0002	Continuous Cell Line Preservation and Recovery						
CGT-0001	AOAC Hard Water Preparation and Determination (CaCO3)						
CGT-0002	Preparation of OECD/EN Hard Water						
CGT-0003	Sodium Hypochlorite Preparation and Sodium Hypochlorite / Available Chlorine Determination						
CGT-0005	Procedure for Monitoring and Documenting Timed Intervals						
CGT-0006	Wetness Determination for Towelette Products						
CGT-0010	Preparation of Disinfectant for Efficacy Tests						
CGT-0011	General Safety Precautions for the Testing Laboratories						
CGT-0013	AOAC Disinfectant (Water) for Swimming Pools						



SOP Number	Title					
CGT-0014	Staining Techniques for Acid Fast Bacilli					
CGT-0015	Gram Stain and Colony Morphology Procedure					
CGT-0016	Overview of Microbiological Technique					
CGT-0017	Available Chlorine in Disinfectants (Germicidal Equivalent Concentration)					
CGT-0018	AOAC Bacteriostatic Activity of Laundry Additive Disinfectants					
CGT-0019	Standard Test Method for the Evaluation of Laundry Additives as Sanitizers or Disinfectants					
CGT-0020	Culture Maintenance Record Keeping Guidelines					
CGT-0021	ETest Method for Determining Antimicrobial Susceptibility					
CGT-0022	Examination of Penicylinder Carriers					
CGT-0023	AOAC Fungicidal Activity of Test Substances					
CGT-0024	AOAC Germicidal and Detergent Sanitizing Action of Disinfectants					
CGT-0025	Food Contact Sanitizer Test Method for Towelettes					
CGT-0026	Efficacy of a Disinfectant or Sanitizer Applied to a Room Via a Fogging, Misting or Vaporizing Device					
CGT-0027	AOAC Germicidal Spray Method					
CGT-0028	Time Kill Test Method for Antimicrobial Agents					
CGT-0029	Residual Self-Sanitizing Efficacy					
CGT-0030	Carpet Sanitizer					
CGT-0031	Minimum Inhibitory Concentration - MIC Macrodilution Broth Method					
CGT-0032	Standard Test Method for Efficacy of Sanitizers Recommended for Inanimate Non-Food Contact Surfaces					
CGT-0033	Pre-Saturated Towelettes for Hard Surface Disinfection					
CGT-0034	Sporicidal Activity of Disinfectants					
CGT-0035	Malachite Green Staining of Bacterial Endospores					
CGT-0036	Preparation of Carriers for Use in Testing					
CGT-0037	Quantitative Suspension Method for Determining Tuberculocidal Activity					
CGT-0038	AOAC Confirmatory Tuberculocidal Activity Test					
CGT-0039	EPA Re-Use Evaluation of a Disinfectant					
CGT-0040	Evaluation of Disinfectant Efficacy against a Biofilm - Single Tube Method					
CGT-0041	AOAC Use-Dilution Method					
CGT-0042	Hard Surface Mildew Fungistatic Test Method					
CGT-0043	Fabric Mildew Fungistatic Test Method					
CGT-0044	Culture Freezing for European Test Methods					
CGT-0045	Culture Maintenance for European Test Methods					
CGT-0046	European Suspension Test Methods for Bactericidal, Fungicidal or Yeasticidal Activity					
CGT-0047	EN 13697 - European Quantitative Surface Test for the Evaluation of Bactericidal and/or Fungicidal Activity					
CGT-0048	Kirby-Bauer Method for Determining Bacterial Susceptibility to Antibiotics					
CGT-0049	Modified Hodge Test Method for Carbapenemase Detection in Enterobacteriaceae					
CGT-0050	Minimum Inhibitory and Minimum Bactericidal Concentration Determination (Microdilution Broth Method)					
CGT-0051	Residual Self-Sanitizing Activity (with Exposure and Wear Activity)					
CGT-0052	Standard Quantitative Carrier Test Method to Evaluate Germicides					
CGT-0053	Production of Clostridium difficile Spores for Efficacy Testing					
CGT-0054	Standard Quantitative Disk Carrier Test Method to Evaluate Germicides					



SOP	Title
Number	Title
CGT-0055	Standard Quantitative Disk Carrier Test Method to Evaluate Germicides Against C. difficile
CGT-0058	Antibacterial Activity Assessment of Textile Materials: Parallel Streak Method (AATCC 147)
CGT-0059	Assessment of Mildew and Rot Resistance of Textile Materials (AATCC 30 Test III)
CGT-0060	Assessment of Antimicrobial Finishes on Textile Materials (AATCC 100)
CGT-0061	Standard Method for Determining Antimicrobial Activity of Antimicrobial Agents (ASTM E2149)
CGT-0062	Standard Method for Determining Antimicrobial Activity in Polymeric or Hydrophobic Materials (ASTM E2180)
CGT-0063	Standard Test Method for Determining Efficacy of Surface-Bound Antimicrobial Agents (JIS Z 2801)
CGT-0064	Disinfectant Qualification Assay for Cleanrooms or Other Manufacturing Facilities
CGT-0065	Purchasing, Receiving, Rehydrating and Freezing Bacterial and Fungal Organisms
CGT-0066	Preparation of Serum Organic Soil Load for the Microbiology Laboratory
CGT-0067	Test Organism Confirmation Procedures
CGT-0068	Solution Preparation for the Microbiology Laboratory
CGT-0069	Antimicrobial Preservative Effectiveness
CGT-0070	Cultivation of Molds for Challenge Testing
CGT-0071	Quality Control of Virucidal Assay
CGT-0072	Documentation of Stock Virus Receipt
CGT-0074	Procedure for the Preparation of Stock Viral Cultures
CGT-0075	Titration of Viruses
CGT-0076	Hemagglutination Assay Procedure
CGT-0077	Viral Isolation - CPE
CGT-0078	Confirmatory Fluorescent Antibody (FA) Test for Viral Identification
CGT-0079	Chlamydia Culture Test Procedure
CGT-0080	Plating Method for Primary Duck Hepatocytes
CGT-0081	Procedure for Counting Cells
CGT-0082	Virucidal Overview
CGT-0083	Preparation of Sephadex Gel and Filtration Columns
CGT-0084	Virucidal Efficacy of a Disinfectant for Use on Inanimate Environmental Surfaces - Sephadex Neutralization
CGT-0085	Virucidal Efficacy of a Disinfectant for Use on Inanimate Environmental Surfaces-Test for Efficacy Against Human Immunodeficiency Virus Type 1 (HIV-1) - Sephadex Neutralization
CGT-0086	Virucidal Efficacy of Disinfectants for Use on Inanimate Environmental Surfaces Using Chemical Neutralization
CGT-0087	Virucidal Efficacy Testing of Disinfectants Using a Suspension Assay
CGT-0088	Karber Method of Calculating TCID50 Endpoints
CGT-0089	Reed & Muench Calculation of 50% Endpoint
CGT-0090	Virucidal Efficacy of a Disinfectant Utilizing Duck Hepatitis B Virus
CGT-0091	Virucidal Efficacy Validation of Disinfectants Used to Clean and Disinfect the Exterior Surface of Blood Glucose Meters/Monitors and Lancing Devices Utilizing Duck Hepatitis B Virus as a Surrogate Virus for Human Hepatitis B Virus
CGT-0092	Virucidal Efficacy of Pre-Saturated Towelettes for Hard Surface Disinfection
CGT-0093	Virucidal Efficacy of a Disinfectant Utilizing Bovine Viral Diarrhea Virus as a Surrogate for Human Hepatitis C Virus



Number   Title							
CGT-0095  Virucidal Efficacy of Disinfectants for Use on Inanimate Environmental Surfaces Utilizing Feline Calicivirus as a Surrogate for Noroviruses CGT-0096  Virucidal Efficacy of Topical Skin Products Utilizing an Ex-Vivo Skin Model CGT-0097  Virucidal Efficacy of an Antiviral Treated Face Mask or Fabric CGT-0098  Virus Propagation in Fertilized Embryonating Chicken Eggs CGT-0099  Murine Norovirus Plaque Assay CGT-0100  General Laboratory Procedures for Viruses Requiring Extra Precautions CGT-0101  BS EN 14476 Chemical Disinfectants and Antiseptics - Quantitative Suspension T for the Evaluation of Virucidal Activity in the Medical Area - Test Method and Requirements (Phase 2/Step 1)  BS EN 14675 Chemical Disinfectants and Antiseptics - Quantitative Suspension T for the Evaluation of Virucidal Activity of Chemical Disinfectants and Antiseptics U in the Veterinary Field - Test Method and Requirements (Phase 2, Step 1)  GGT-0103  Standard Test Method for Determining Antiviral or Antichlamydia Activity and Efficial Surface-Bound Antimicrobial Agents (Modification of JIS Z 2801)  GGT-0105  Maintaining Non-Adherent Cell Lines  CGT-0107  CGT-0107  Immunofluorescence Antibody (IFA) Assay for Human Immunodeficiency Virus  CGT-0108  Freezing Non-Adherent Cell Suspensions  CGT-0109  Entrance and Exit Procedures for the BSL-3 Laboratory  CGT-0111  DECD Production of Clostridium Difficile Spores for Efficacy Testing  CGT-0120  OECD Production of Clostridium Difficile Spores for Efficacy Testing  CGT-0121  OECD Quantitative Method for Evaluating Efficacy of Liquid Antimicrobials Against Spores of Clostridium difficile (ATCC 43598) on Inanimate, Hard, Non-porous Surfaces  CGT-0124  Preparation of Bleach Standard Solutions  BS EN 16777 Chemical Disinfectants and Antiseptics-Quantitative Mon-Porous Surface Test without Mechanical Action for the Evaluation of Virucidal Activity of Chemical Disinfectants Used in the Medical Area-Test Method and Requirements (Phase 2/Step 2)  CGT-0137  Core Laboratory Personnel Training, Retrai							
Utilizing Feline Čalicivirus as a Surrogate for Noroviruses  CGT-0096 Virucidal Efficacy of Topical Skin Products Utilizing an Ex-Vivo Skin Model  CGT-0097 Virucidal Efficacy of an Antiviral Treated Face Mask or Fabric  CGT-0098 Virus Propagation in Fertilized Embryonating Chicken Eggs  CGT-0099 Murine Norovirus Plaque Assay  CGT-0100 General Laboratory Procedures for Viruses Requiring Extra Precautions  CGT-0101 BS EN 14476 Chemical Disinfectants and Antiseptics - Quantitative Suspension T for the Evaluation of Virucidal Activity in the Medical Area - Test Method and Requirements (Phase 2/Step 1)  CGT-0102 BS EN 14675 Chemical Disinfectants and Antiseptics - Quantitative Suspension T for the Evaluation of Virucidal Activity of Chemical Disinfectants and Antiseptics U in the Veterinary Field - Test Method and Requirements (Phase 2, Step 1)  CGT-0103 Standard Test Method for Determining Antiviral or Antichlamydial Activity and Efficial of Surface-Bound Antimicrobial Agents (Modification of JIS Z 2801)  CGT-0105 Maintaining Non-Adherent Cell Lines  CGT-0106 Thawing Cells  CGT-0107 Immunofluorescence Antibody (IFA) Assay for Human Immunodeficiency Virus  CGT-0108 Freezing Non-Adherent Cell Suspensions  CGT-0109 Entrance and Exit Procedures for the BSL-3 Laboratory  CGT-0111 Biosafety Level 3 (BSL-3) General Laboratory Procedures  CGT-0120 OECD Production of Clostridium Difficile Spores for Efficacy Testing  CGT-0121 OECD Quantitative Method for Testing Antimicrobial Products Against Spores of Clostridium difficile (ATCC 43598) on Inanimate, Hard, Non-porous Surfaces  CGT-0122 Workflow Process for Laboratory R&D/Method Development Testing  CGT-0123 Quantitative Method for Festing Antimicrobial Products Against Cand auris (CDC AR-0381) on Hard, Non-Porous Surfaces  CGT-0124 Preparation of Bleach Standard Solutions  BS EN 16777 Chemical Disinfectants and Antiseptics-Quantitative Mon-Porous Surface Test without Mechanical Action for the Evaluation of Virucidal Activity of Chemical Disinfectants Used in the Medical Are							
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Clostridium difficile (ATCC 43598) on Inanimate, Hard, Non-porous Surfaces  CGT-0122 Workflow Process for Laboratory R&D/Method Development Testing  CGT-0123 Quantitative Method for Evaluating Efficacy of Liquid Antimicrobials Against Cand auris (CDC AR-0381) on Hard, Non-Porous Surfaces  CGT-0124 Preparation of Bleach Standard Solutions  CGT-0135 BS EN 16777 Chemical Disinfectants and Antiseptics-Quantitative Mon-Porous Surface Test without Mechanical Action for the Evaluation of Virucidal Activity of Chemical Disinfectants Used in the Medical Area-Test Method and Requirements (Phase 2/Step 2)  CGT-0137 Core Laboratory Personnel Training, Retraining and Proficiency Evaluation Procedure  CGT-0138 Bacteriophage Stock Preparation  CGT-0139 Quantitative Evaluation of Air Sanitizer Efficacy Against Airborne Bacteriophage in Large Indoor Space  CGT-0140 Bioaerosol Chamber General Laboratory Procedure							
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Large Indoor Space CGT-0140 Bioaerosol Chamber General Laboratory Procedure							
	а						
CGT-0141 ISO 18184 – Determination of Antiviral Activity of Textile Products							
CGT-0142 Quantitative Evaluation of Air Sanitizer Efficacy Against Airborne Bacteria and Fui	gi in						
a large Indoor Space							
CGT-0143 Evaluation of Air Sanitizer Efficacy Against Airborne Viruses in a Large Space							
CGT-0145 <usp 797=""> - Procedure for Environmental Monitoring of Pharmaceutical Compounding Facilities</usp>							
CGT-0148 General Procedures For The Bioaerosol Laboratory							
CMP-0001 Heat Inactivation of Animal Serums							
CMP-0002 Screening of Fetal Bovine Serum	_						
CMP-0003 Quality Control Testing of Cell Culture Media							



SOP	Title						
Number CMP-0004	Aseptically Produced Media and Reagents						
CMP-0005	Preparation of Media and Reagents in the Viral and Cell Culture Laboratories						
EQM-0001	Equipment Validation Documentation						
EQM-0002	Electronic Digital Caliper Use and Maintenance						
EQM-0003	Operation and Cleaning of Centrifuges						
EQM-0004	peration and Cleaning of Centritiges peration and Maintenance of the Eppendorf Microcentrifuge						
EQM-0004	Sunbeam Freightmaster 150 Electronic Scale Calibration Check and General Use						
EQM-0007	Storage Stability Chamber Monitoring and Cleaning						
EQM-0007	Incubator Monitoring and Cleaning						
EQM-0009	Use and Calibration of Gardco Washability and Wear Tester (D10V)						
EQM-0010	Fyrite % CO2 Level Determination in Incubators						
EQM-0011							
EQM-0012	Humidity Chamber Operation and Maintenance Hygrometer Use and Maintenance						
	Microscope Use & Maintenance						
EQM-0013	·						
EQM-0014	Use and Calibration of Pipettors						
EQM-0015	Use and Calibration of Repeat Pipettors						
EQM-0016	pH Meter Operation and Calibration Procedure						
EQM-0017	Operation of the Masterflex® I/P® Precision Brushless Drive, Model 77410-10, and Easy-Load® Pump Head						
EQM-0018	Ultrasonic Cleaner Monitoring						
EQM-0019	Refrigerator and Freezer Monitoring and Cleaning						
EQM-0020	Use and Calibration of Touch Tachometers						
EQM-0021	Use and Calibration of Touch Tachometers  Use and Maintenance of Stereoscopes						
EQM-0022	Water Bath Monitoring and Cleaning						
EQM-0023	Decontaminating/Cleaning Reagent Preparation and Work Area Decontamination						
_ a 0020	Documentation						
EQM-0024	Liquid Nitrogen Tank Maintenance						
EQM-0025	Anaerobic/Microaerophilic Gas Generating Systems						
EQM-0026	Shaker Monitoring and Cleaning						
EQM-0027	Wrist Action Shaker Use and Monitoring						
EQM-0028	Maintaining Chart Recorders						
EQM-0030	Biological Safety Cabinet Monitoring, Maintenance and Certification						
EQM-0031	Fume Hood Operation and Certification						
EQM-0032	Room Temperature Monitoring						
EQM-0034	Use and Calibration of Laboratory Thermometers						
EQM-0035	Use and Calibration of Timers						
EQM-0036	Vacuum Pump Operation/Maintenance						
EQM-0037	Use and Calibration of the Digital Barometer Module						
EQM-0038	Lyon Electric Profi I Egg Incubator Operation and Maintenance						
EQM-0039	Documenting Equipment Monitoring						
EQM-0040	AND GX-6100 Balance Calibration Check and General Use						
EQM-0041	Documentation of Equipment Cleaning, Maintenance, and Repair						
EQM-0044	Use of the Traceable® Dual-Display Light Meter						
EQM-0045	Ohaus CS200 Scale Calibration and General Use						
EQM-0046	Soxhlet Condenser Apparatus Operation and Maintenance						
L GIVI OUTO							



SOP Number	Title						
EQM-0050	Use, Maintenance and Calibration of the Mettler Toledo AB104 Scale						
EQM-0051	Use, Maintenance and Calibration of the Mettler Toledo XP205 Delta Range Analytical Balance						
EQM-0056	Use, Maintenance and Calibration of the Denver Instruments APX-323 Balance						
EQM-0057	Use of the Testing Room for Laboratory Studies						
EQM-0058	Laminar Flow Hood Operation						
EQM-0069	Operation of the Millipore Synergy Water Purification System						
EQM-0070	Use and Calibration of Manual Burets						
EQM-0072	VWR Forced Air Oven Models 89511-410 Operation and Maintenance						
EQM-0073	Labconco Scrubair Pipette Washer/Dryer Operation and Maintenance						
EQM-0075	Operation and Maitenance of Brookfield DV2T Viscometer						
EQM-0077	Use, Calibration, and Maintenance of Digital Burettes						
EQM-0078	Use, Calibration, and Maintenance of Sartorius Picus NxT Electronic Pipettes						
EQM-0079	Use, Maintenance, and Calibration of the Mettler Toledo XSR205DU Analytical						
	Balance						
EQM-0080	Mettler Toledo MS-TS Precision Balance Use, Maintenance and Calibration						
EQM-0082	Peak Scientific Air Compressors and Gas Generators						
EQM-0083	Air Ion Counter AIC2 Operation and Maintenance						
EQM-0084	Collision Nebulizer Operation and Maintenance						
EQM-0085	BioSpot-VIVAS 310 Bioaerosol Sampler Operation and Maintenance						
EQM-0086	SKC Biosampler Bioaerosol Collection Device Operation and Maintenance						
EQM-0087	Particles Plus 7301-AQM Air Quality Monitor Operation and Maintenance						
EQM-0088	Airwash PRO HEPA Air Filtration System Operation and Maintenance						
EQM-0089	CURIS Fogger Operation and Maintenance						
EQM-0090	SKC Field Rotameter Operation and Maintenance						
EQM-0091	PortaSens III Portable Gas Leak Detector Model D16						
EQM-0092	Brinsea Ova-Easy Advance Series II Cabinet Incubator and Humidity Pump Operation and Maintenance						
EQM-0102	Use, Maintenance, and Calibration of the Ohaus EX6202 Balance						
EQM-0103	Use of the VWR M4 UV/Vis Spectrophotometer						
EQM-0104	Use and Operation of Masterflex Mastersense Digital Pump Drive						
EQM-0105	Mettler Toledo ME-T Precision and Analytical Balances Use, Maintenance, and Calibration						
EQM-0106	Use, Maintenance, and Calibration of the PowderSafe 700 Series Ductless Balance Enclosure						
EQM-0107	Use and Maintenance of Pressure Gauges						
EQM-0108	Use and Maintenance of Commercial Fans in the Efficacy Testing Labs						
EQM-0109	Use and Maintenance of Hydrogen Peroxide Sensors						
EQM-0113	Operation and Maintenance of Brookfield TC-550SD Circulating Water Bath						
FAC-0001	Facility Pest Control						
FAC-0002	Generac Generator Operational Checks and Preventative Maintenance						
FAC-0003	LockOut/TagOut Procedure						
FAC-0004	Refrigerator, Freezer and Ultra Low Freezer Preventative Maintenance						
FAC-0005	Air Handling, Air Conditioning & Exhaust Fan Preventative Maintenance						
FAC-0006	High Pressure Boiler, Autoclave and Dishwasher Preventative Maintenance						
FAC-0007	Carbon Dioxide System Monitoring and Maintenance						
FAC-0008	Walk-In Refrigerator Preventative Maintenance						



SOP Number	Title						
FAC-0009	Incubator Preventative Maintenance						
FAC-0010	Sanitization of the Deionized Water System						
FAC-0011	Routine Water Sampling for the Deionized Water System						
FAC-0012	Environmental Chamber and Humidity Chamber Preventative Maintenance						
FAC-0013	Preventative Maintenance Documentation						
FAC-0014	osafety Level 3 Laboratory Annual Preventative Maintenance						
IT-0005	Procedures for Archiving Electronic Data						
IT-0010	Business Continuity Management and Disaster Recovery Procedure						
IT-0011	Administration of the Chromeleon Chromatography Data System Software						
LS-0001	Computer System Life Cycle Management and 21 CFR Part 11 Compliance						
LS-0002	Master Validation Plan						
LS-0003	Change Control Procedures for Validated Software Systems						
LS-0004	Electronic Signature Use Policy						
LS-0005	Adverse Events						
LS-0006	Corrective and Preventive Action Procedure						
LS-0007	Internal Audit						
LS-0012	Deviation Investigation						
LS-0013	Administration of MasterControl						
LS-0014	Use of DocuSign Part 11						
LS-0015	Data Governance Policy						
LS-0016	Computerized Systems Validation and Verification						
LS-0022	Network Backup and Recovery						
MPR-0003	Quality Control Testing Media and Reagents						
MPR-0005	Preparation of Media and Reagents in the Media Production Laboratory						
MPR-0006	Media Plates, Slants, Bottle and Flask Production						
QAU-0001	Internal Audit Procedure						
QAU-0002	Quality Assurance Review of Controlled Documents						
QAU-0003	Monitoring Subcontractors for GLP Compliance						
QAU-0004	Quality Assurance Unit (QAU) Responsibilities for Non-Clinical Studies						
QAU-0005	Performance of Critical Phase Inspections						
QAU-0006	Quality Assurance Report Audit Instructions for Non-Clinical GLP Studies						
QAU-0007	Multi-Site Studies: Test Site Quality Assurance Unit (QAU) Responsibilities						
QAU-0008	Management Review						
QAU-0009	Qualification of Vendors						
SAF-0001	Emergency Procedures						
SAF-0003	General Safety						
SAF-0004	Exposure Plan for Bloodborne and Other Pathogens						
SAF-0005	Exposure Control Plan for Chemicals						
SAF-0006	Waste Management						
SAF-0008	Employee Right to Know						
STE-0001	Preparation of Items for Sterilization						
STE-0002	Dishwashing of Laboratory Items						
STE-0003	Labconco SteamScrubber Dishwasher Operation and Maintenance						
STE-0004	Operation of the Autoclaves						
STE-0005	VWR International Horizontal Air Flow Oven, Model 1675 Operation and Cleaning						
STE-0006	Sterilization Lab Process Flow						



**Element Materials Technology Minneapolis - Eagan** 

### REGULATORY OVERVIEW DOCUMENT

Element Eagan provides antimicrobial and biocide testing services through a comprehensive range of microbiology, virology and analytical chemistry tests. In doing so, we comply with the following regulations:

**EPA** 

40 CFR Part 160 Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA): Good Laboratory

**Practice Standards** 

**FDA** 

21 CFR Part 58 Good Laboratory Practice for Nonclinical Laboratory Studies

On the following page, you will find a Compliance Outline that summarizes how Element Eagan complies with the regulations stated above.



## **ELEMENT EAGAN COMPLIANCE OUTLINE**

40 CFR	21 CFR	Section	Section Title	Element	SOP Title
Part 160	Part 58			Eagan SOP	
		Provisions			
160.1	58.1		Scope		
160.1	58.1		Applicability to studies performed	ALS-0028	GLP Protocol
			under grants and contracts		Requirements
160.3	58.3		Definitions		
160.12			Statement of compliance or non-		Statement is included with
			compliance	each GLP Re	
160.15	58.15		Inspection of a testing facility	ALS-0013	Facility Inspections
160.17			Effects of non-compliance		
Subpart B	- Organiza	tion and Pe	rsonnel		
160.29	58.29	(a)-(f)	Personnel	ALS-0024	Personnel Outline for
					Non-Clinical Studies
160.29	58.29	(a)	Personnel	ALS-0001	Personnel Training,
					Retraining and
					Competency Evaluation
					Procedure
160.29	58.29	(b)	Personnel	ALS-0023	Good Laboratory Practice
					(GLP) Training Program
160.29	58.29	(b)	Personnel	ALS-0002	Training File Contents
160.29	58.29	(b)	Personnel	ALS-0003	Procedure for Company
					Organizational Chart,
					Personnel Job
					Descriptions and CVs
160.29	58.29	(d), (e),	Personnel	CGT-0011	General Safety
		(f)			Precautions for the
					Testing Laboratories
160.29	58.29	(d), (e),	Personnel	ALS-0022	Safety Training
		(f)			
160.31	58.31	(a)-(c),	Testing Facility Management	ALS-0025	Management and Study
		(e)-(g)			Director Responsibilities
160.33	58.33	(a)-(f)	Study Director	ALS-0025	Management and Study
					Director Responsibilities
160.35	58.35	(a),	Quality Assurance Unit	QAU-0004	Quality Assurance Unit
		(b)(1)-(7)			(QAU) Responsibilities for
					Non-Clinical GLP Studies
160.35	58.35	(c),(d)	Quality Assurance Unit	QAU-0006	Quality Assurance Audit
					Instructions for Non-
					Clinical GLP Studies



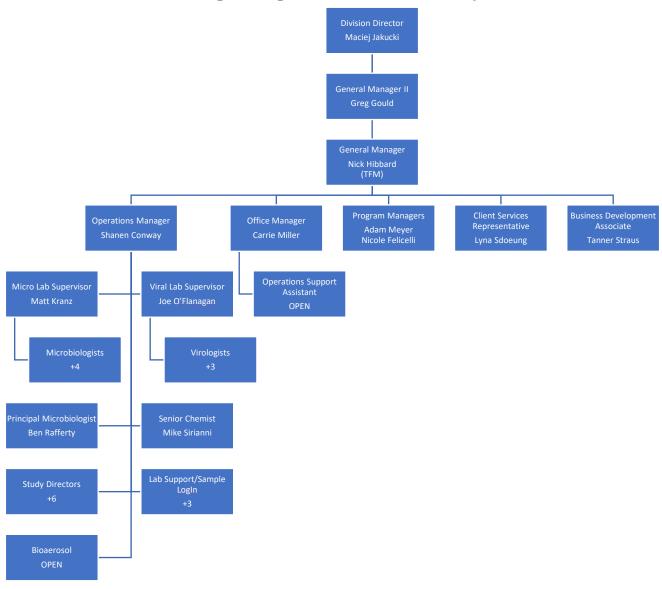
40 CFR Part 160	21 CFR Part 58	Section	Section Title	Element Eagan SOP	SOP Title		
Subpart C - Facilities							
160.90	58.90		Animal and other test system care	FAC-0001	Facility Pest Control		
160.41	58.41		General	ALS-0012	Facility Security and Visitor Identification		
160.43	58.43		Test system care facilities	CGT-0009	General Laboratory Procedures		
160.45	58.45		Test system supply facilities	ALS-0031	Receiving Policies and Procedures		
160.47	58.47		Facilities for handling test, control and reference substances	ALS-0052	Receipt, Identification and Storage of Test, Control and Reference Substances		
160.49	58.49		Laboratory operation areas		Element Eagan has separate areas for microbiology, virology, media preparation and analytical chemistry.		
160.51	58.51		Specimen and data storage facilities	ALS-0032	Archive Procedures for Documentation Records		
Subpart D	- Equipment	t					
160.61	58.61		Equipment Design	ALS-0019	Measurement Assurance Program		
160.63	58.63		Maintenance and calibration of equipment	ALS-0019	Measurement Assurance Program		
Subpart E	- Testing Fa	cilities Op	eration				
160.81	58.81	(a)-(d)	Standard operating procedures	ALS-0011	Documentation Control and Records Maintenance		
160.81	58.81		Standard operating procedures	ALS-0007	Format and Content of Controlled Documents		
160.81	58.81		Standard operating procedures	ALS-0004	Numbering System for Controlled Documents		
160.83	58.83		Standard operating procedures	ALS-0018	Labeling of Laboratory reagents and Solutions		
160.90	58.90	(a)-(c)	Reagents and solutions	CGT-0020	Culture Maintenance Record Keeping Guidelines		
160.90	58.90		Animal and other test system care	CGT-0074	Procedure for the Preparation of Stock Viral Cultures		
160.90	58.90		Animal and other test system care	CGT-0065	Purchasing, Receiving, Rehydrating and Freezing Bacterial and Fungal Organisms		
160.90	58.90		Animal and other test system care	CGT-0072	Documentation of Stock Virus Receipt		
160.90	58.90		Animal and other test system care	CGT-0009	General Laboratory Procedures		
160.90	58.90		Animal and other test system care	CGT-0067	Test Organism Confirmation Procedure		
160.90	58.90		Animal and other test system care	CGT-0071	Quality Control of Virucidal Assay		



40 CFR Part 160	21 CFR Part 58	Section	Section Title	Element Eagan SOP	SOP Title		
Subpart F	- Test and Control Articles						
160.105	58.105		Test and control article characterization	ALS-0028	GLP Protocol requirement		
160.107	58.107	(a)-(d)	Test and control article handling	ALS-0052 and ALS- 0053	Receipt, Identification and Storage of Test, Control and Reference Substances Test Substance Accountability Record Documentation		
160.113	58.113		Mixtures of articles with carriers	CGT-0009	General Laboratory Procedures		
Subpart G	- Protocol f	or and con	duct of a non-clinical laboratory	study			
160.120	58.120	(a)-(b)	Protocol	ALS-0028	GLP Protocol requirement		
160.120	58.120	(b)	Protocol	ALS-0029	Deviations and Protocol Amendments		
160.130	58.130	(e)	Conduct of a nonclinical laboratory study	ALS-0008	Good Documentation Practices		
160.130	58.130	(c)	Conduct of a nonclinical laboratory study	CGT-0009	General Laboratory Procedures		
160.135			Physical and chemical characterization studies		Physical and chemical characterization studies are run under GLP protocols & systems		
Subpart J	- Records a	nd Reports					
160.185	58.185	(a)-(b)	Reporting of nonclinical laboratory study results	ALS-0027	GLP Final Reports		
160.185	58.185	(c)	Reporting of nonclinical laboratory study results	ALS-0030	GLP Final Report Amendments		
160.190	58.190	(a)-(e)	Retention of records	ALS-0032	Archive Procedures for Documentation Records		
160.190	58.190		Retention of records	ALS-0033	Preparing Project Files for Archiving		
160.195		(a)-(i)	Storage and retrieval of records and data	ALS-0032	Archive Procedures for Documentation Records		

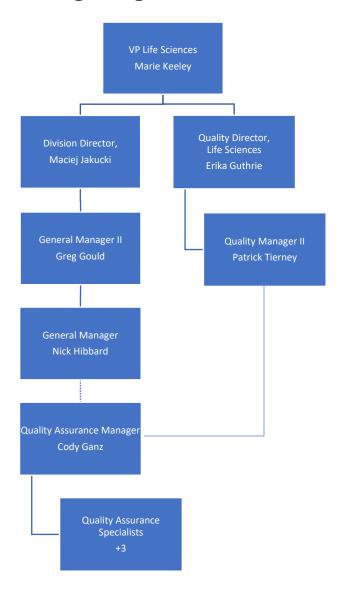
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## **Element Eagan Organizational Chart – Operations**



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# **Element Eagan Organizational Chart – Quality**



**Element Materials Technology Minneapolis - Eagan** 

### **FACILITY MAP**

