

GMP Site Quality Self-Assessment

based on

Rx-360 Supplier Assessment Questionnaire

Module 2, Site Specific Information

Relevant for

Sigma-Alrich Corporation 3858 Benner Road Miamisburg, OH 45342 USA

An affiliate of Merck KGaA, Darmstadt, Germany

The site self-assessment covers our quality management system for the following regulated applications: - manufacturing of isotopically labelled APIs

The site also processes products which do not fall under any of the above mentioned regulated areas. For these products, other quality standards apply. For details, please refer to our non-GMP Quality Site Self-Assessment.



Merck KGaA, Darmstadt, Germany is an active member of the Rx 360 Consortium.

As a trusted partner of our customers, we deliver quality - always.

Merck KGaA, Darmstadt, Germany Corporation with General Partners Frankfurter Str. 250 64293 Darmstadt, Germany Phone +49 6151 72-0 Sigma-Aldrich Corporation A subsidiary of Merck KGaA, Darmstadt, Germany 3050 Spruce Street St. Louis, MO 63103, USA Phone +1 (800) 521-8956 / +1 (314) 771-5765 EMD Millipore Corporation A subsidiary of Merck KGaA, Darmstadt, Germany 400 Summit Drive Burlington, MA 01803, USA Phone +1 (781) 533-6000

GMP Site Self-Assessment Miamisburg version 1.1



Information

This document is based on the Rx-360 Consortium's Supplier Assessment Questionnaire template, Module 2. The contents of this questionnaire are built on the Rx-360 questionnaire version 2.0 intact with no question added or deleted.

Rx-360's CEO/COO gave permission to Life Science to use the Rx-360 logo.



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Rx-360 Supplier Assessment Questionnaire : Site-Specific Information

Please check here if additional documents are attached.

	SECTION 1. General Site Information
1.1	
	Aldrich Chemical Company LLC
1.2	Address:
	3858 Benner Road
	Miamisburg, OH 45342
	USA
	GPS Coordinates:
	39.615923, -84.245246
	57.015725, -04.245240
1.3	Phone:
	Please contact your local Sales representative
1.4	Email:
	Please contact your local Sales representative
1.5	Fax:
	Please contact your local Sales representative
1.6	
	www.sigmaaldrich.com

	SECTION 2. General Site Operating Information					
2.1	What year did the site start operating? 1979					
2.2	What is the primary activity of the site? (e.g. manufacturing, distribution, etc.) Manufacturing of stable isotopically labeled compounds					
2.3	To which, if any, subdivision of the parent company does the site belong?					

	SECTION 2. General Site Operating Information				
	Life Science business is a division Merck KGaA, Darmstadt, Germany				
2.4	Size of site (in sq. ft. or m.): 44 km2				
2.5	Please list or attach the normal hours/schedule of the facilities, including shutdown dates (if applicable): 8 hours				
2.6	Total number of employees on site: 100				
2.7	Total number of employees in Quality: 18				
2.8	Total number of employees in Manufacturing: 60				
2.9	What quality management system is utilized on site? ISO 9001 ISO 13485 21 CFR Part 210/211 21 CFR Part 820 European GMP, Eudralex Volume 4 Part I European GMP, Eudralex Volume 4 Part II ICH Q7 HACCP ISO 22000 Other Please describe: ISO 14001 Which Regulatory Initiatives does the site follow/comply with? REACH RoHs Ca Prop. 65				
2.10	Does the company/site have an export license?YesNoN/A				

	SECTION 2. General Site Operating Information					
2.11	Is the site registered with any government regulatory agency (FDA registration, GMP certification, etc.)? Second Second S					
2.12	By whom is the site inspected (reg the last three years: FDA every 2 per regulation. Last	•	• /	nspections within		
2.13	How often, as an annual average, i 3	s the site audited	l by customers	or third parties?		
2.14	Has an Rx-360 audit been performed at this site? Yes No Please also state the date of the audit if applicable. Yes No http://rx-360.org/audit-programs/					
2.15	Are you willing to have Rx-360 conduct an audit on behalf of your customers according to the Rx-360 audit programs on your site?					
2.16	Are you willing to have your customers conduct audits on your site?					
2.17	Please list regulatory sanctions impacting the site within the last five years (i.e. warning letters, CEP suspension, import alerts, etc.): none					
2.18	Does the site outsource any quality-	related activity?				
		N/A				
	If answering yes, please specify the activities: Analytical testing and calibration					
2.19	Please check the supplier controls in	place for this fa	cility:			
2.19a	Quality Agreements with Suppliers	Xes Yes	🗌 No	N/A		
2.19b	Subcontractor Qualification/Audit Program	🛛 Yes	🗌 No	N/A		

SECTION 2. General Site Operating Information										
2.19c	Periodic Review of Supplier Performance	X Yes	🗌 No	N/A						
2.19d	Supplier Feedback Program	🛛 Yes	🗌 No	N/A						
2.19e	Approved Material Supplier List	Xes Yes	🗌 No	N/A						
2.19f	Approved Service Supplier List	🛛 Yes	🗌 No	N/A						
Additional comments:										
This document covers GMP products. The site produces non-GMP products as well, for										
those	please refer to non-GMP Site Self-As	ssessment								
	-									

	SECTION 3. Objectionable	Materials	on Site	
3.1	Does the site or production plant produce, process or store any of the following:	Yes	No	Not Applicable
3.1a	Beta-Lactam Antibiotics		\square	
3.1b	Steroids and/or hormones		\boxtimes	
3.1c	High potency compounds		\boxtimes	
3.1d	Materials of animal origin/Biologics		\boxtimes	
3.1e	Live virus or micro-organism		\boxtimes	
3.1f	Allergens		\boxtimes	
3.1g	Genetically Modified Organisms (GMO)		\boxtimes	
3.1h	Agrochemicals (Pesticides, Herbicides, Fungicides, etc.)		\boxtimes	
3.1i	Other (Please specify): This list applies to GMP areas, For non-GMF Self-Assessment	areas pleas	e refer to r	on-GMP Site
	SECTION 4. Cross Contam	ination C	ontrol	
4.1	Are any of the following cross- contamination controls in place?	Yes	No	Not Applicable
4.1a	Dedicated Facilities			
4.1b	Access Controls			
4.1c	Dedicated Personnel	\square		
4.1d	Dedicated Gowning			
4.1e	Procedural Controls			
4.1f	Other (please specify):	· · · ·		
Add	itional Comments: This applies for GMP produ	tct handling		

	SECTION 5. Site Operating P	olicies		
5.1	Does the site utilize the following written polici			procedures?
Site Spo	ecific:	Yes	No	Not Applicable
5.1a	Environmental, Health, and Safety	\square		
5.1b	Facility Environmental Control Policy	\square		
5.1c	General Facility Cleaning Procedures	\boxtimes		
5.1d	Hygiene and Sterilization Procedures	\boxtimes		
5.1e	Validated Equipment Cleaning Procedures	\square		
5.1f	Preventative Maintenance Program/Procedures	\square		
5.1g	Pest Control Program			
5.1h	Master Production Procedure	\square		
Quality	•			
5.1i	Quality Control/Quality Management Policy			
5.1j	Quality Manual			
5.1k	Periodic Product Quality Review			
5.11	Master Validation Plan			
5.1m	Risk Assessment Program			
5.1n	Supplier Approval Procedure			
5.10	Monitoring and Review of Approved Suppliers			
5.1p	Mechanism to Reduce Testing			
5.1q	Receiving Incoming Inspection			
5.1r	Change Control Procedures			
5.1s	Document Management Policy			
5.1t	Document Retention Policy			
5.1u	Change Notification Procedures for Clients			
5.1v	Control of Nonconforming Material			
5.1w	Deviation/Investigation Procedure			
5.1x	Out of Specification Policy and Procedure	\square		
5.1y	Sampling Procedure/Sampling Plan			
5.1z	Raw Material Retention Program			
5.1aa	CAPA Procedure	\square		
5.1bb	Label Control and Accountability			
5.1cc	Product Release Procedure			
5.1dd	Employee Training Program			
5.1ee	Stability, Expiration, and Shelf-Life Program			
5.1ff	Product Retention Program			
5.1gg	Recall Procedure			
5.1hh	Customer Complaint Handling			

5.1ii	Equipment validation/qualification procedure							
	SECTION 5. Site Operating Policies							
		Yes	No	Not Applicable				
5.1jj	Internal audit/self-inspection program procedure	\square						
5.1kk	Site Security/Site Access Control Policies	\square						
5.111	New Hire Program/Induction Program	\square						
Business	Continuity/Contingency Plan:							
5.1mm	Disaster Recovery Plan	\square						
5.1nn	Pandemic Preparedness Plan	\square						
5.100	Supply Chain Emergency Preparedness Plan	\square						
5.1pp	Business Continuity/Contingency Plan	\square						
5.1qq	Can the company provide a plan upon request? C below: This list applies to GMP areas, For non-GMP are Self-Assessment	-		-				

	SECTION 6. Quality Assurance and Production			
		Yes	No	Not Applicable
6.1	Does the site have an independent and defined Quality Assurance/Quality Management Division?	\boxtimes		
6.2	Does QA/QM have authority over the following:			
6.2a	Policies and procedures?	\square	\square	
6.2b	Review of documentation for release?	\square		
6.2c	Release or rejection of incoming materials?	\square		
6.3	Does QA/QM investigate and resolve quality complaints?	\square		
6.4	Does QA/QM investigate and resolve internal deviations?	\square		
6.5	Does the QA/QM have the authority to assign a disposition to materials?			
6.6	Does the QA/QM review manufacturing and testing records prior to release?	\square		
6.7	Does the facility utilize computerized systems for managing GxP activities or data?	\square		
6.8	Are relevant computerized systems 21 CFR part 11 and EU GMP annex 11 compliant?	\square		
6.9	Does the site use statistical methods for consistency and uniformity?			
6.10	Does the site use controlled documents for following and recording manufacturing instructions?			

	SECTION 6. Quality Assurance and Production					
	č	Yes	No	Not Applicable		
6.11	Does the company qualify and/or validate manufacturing	\square				
	procedures?					
6.12	Is any environmental monitoring conducted in	\square				
	production/finishing areas?					
6.13	Does the site supply BSE/TSE declarations?	\square				
6.14	Does the site supply a declaration of Elemental Impurities?	\square				
6.15	Are ICH Q3C(R4) solvents used in the manufacturing	\square				
	process of supplied materials?					
6.16	Are stability studies carried out according to ICH guidance?	\square				
6.17	Are solvents and mother liquor reused/recycled?		\boxtimes			
6.18	Does the site have a process water treatment system?	\square				
6.18a	Please check all that apply to the system:					
	City/potable water					
	Distilled water					
	Dionized water					
	Water for injection (WFI)					
	Reverse Osmosis					
	Clean steam					
	Ultra-filtrated water (purified water)					
	Other:					
6.19	Does the plant have a batch/lot system?					
6.19a	Is the system traceable?					
6.19b	Is it unique?					
6.19c	Is batch/lot manufacturing continuous?					
6.19d	Is manufacturing batch by batch?					
6.20	Does the site perform on-plant audits prior to approving] [
	critical GxP suppliers?	\boxtimes				
6.21	Does the site audit critical GxP suppliers after initial	\boxtimes				
	approval?					
6.22	Does the site inspect incoming materials?	\square				
6.23	Does the site test incoming materials to defined	\square				
	specifications?					
6.24	Does the site establish purchase specifications for raw		\square			
	materials?					
6.25	Is the equipment multi-use?		\square			
6.26	Does the site qualify equipment installation?					
6.27	Does the site qualify equipment operation?					
6.28	Does the site qualify equipment performance?					
6.29	Are production critical use instruments calibrated regularly?	\square				

	SECTION 6. Quality Assurance and Production				
		Yes	No	Not Applicable	
6.30	Is rework allowed?	\boxtimes			
6.31	Is reprocessing allowed?	\boxtimes			
6.32	Are manufacturing and packaging activities traceable to the equipment, areas, and materials used?	\square			
6.33	Are production materials handled and stored in a manner to prevent degradation, contamination and cross- contamination?	\boxtimes			
6.34 If answering 'not applicable' for any of the above, please elaborate:					
Additional Comments: For 6.2: yes for procedures, no for global policies, This list applies to					
GMP a	reas, for non-GMP areas please refer to non-GMP Site Self-Ass	essme	nt		

SECTION 7. Laboratory Procedures				N/A for this Site		
		Yes	No	Not Applicable		
7.1	Does the site have standard procedures for sample handling/tracking?	\boxtimes				
7.1a	Does the site have standard procedures for retaining samples?	\boxtimes				
7.1b	Does the site have standard procedures for re- testing samples?					
7.2	Does the site have written and approved specifications and test methods?					
7.3	Are laboratory instruments calibrated regularly?	\square				
7.4	Is there a standard procedure in place for analytical method development?	\boxtimes				
7.5	Does the site qualify and/or validate analytical test procedures?	\boxtimes				
7.6	Does the site perform stability testing on materials and/or products?	\boxtimes				
7.7	Are retention samples of key raw materials maintained?	\boxtimes				
7.8	Are standards traceable to their preparation and reagents used?	\boxtimes				
7.9	Are retention samples of finished product maintained?	\boxtimes				
7.10	Are shelf life/retest/expiration dates available and standardized?	\boxtimes				
7.11	Does the company provide a certificate of analysis (CoA) and/or a Certificate of	\boxtimes				

SECTION 7. Laboratory Procedures		□ N/A for this Site		
		Yes	No	Not Applicable
	Conformation/Compliance (CoC) for each lot or batch?			
7.12	Does the CoA/CoC contain the manufacture name and location?		\bowtie	
7.13	Does the CoA/CoC signed/e-signed by a Quality representative?	\square		
7.14	If a repacker performs analyses, will the CoA reflect both the original manufacturing site data as well as the repacking site data?			\boxtimes
7.15	If answering 'not applicable' for any of the above,	please elab	oorate:	
7.16	Additional Comments: This list applies to GMP ar refer to non-GMP Site Self-Assessment	eas, For no	on-GMP	areas please

SECTION 8. Packaging, Storage, and Transport			□ N/A for this Site	
		Yes	No	Not Applicable
8.1	Does the site have a validated or qualified labeling system?			
8.2	Are batch production records retained and available?	\square		
8.3	Are packaging and labeling areas separate from production?	\square		
8.4	Are barcode readers in use and challenged regularly?		\square	
8.5	Are vision systems in use?		\square	
8.6	Is product ever packaged without a label being initially applied (i.e. bright stocking)?		\bowtie	
8.7	Do labels include shelf life/expiration dates?		\square	
8.8	Do labels include lot/batch number?	\square		
8.9	Do labels include requirements for storage conditions?			
8.10	Is tamper evident seal used for each container of supplied materials?			
8.11	Does the company use a First-In-First-Out or First-Expiration-First-Out system?			
8.12	Does the company maintain appropriate storage conditions?	\square		
8.12a	Are those storage conditions monitored and documented?			

SECTION 8. Packaging, Storage, and Transport			□ N/A for this Site		
		Yes	No	Not Applicable	
8.13	Does the site make available a description of storage and/or warehouse conditions?	\boxtimes			
8.14	Does the site distribute products via a third party?	\boxtimes			
8.15	Are good distribution policies implemented?	\boxtimes			
8.16	Are transport mechanisms dedicated?	\boxtimes			
8.17	Does the company validate shipping method?	\boxtimes			
8.18	Does the company validate packaging methods?	\boxtimes			
Additional Comments: This list applies to GMP areas, For non-GMP areas please refer to					
non-GMP Site Self-Assessment					

I (Supplier) confirm that the information provided in this questionnaire is correct and can be verified.

Date:24-JUN-2022

Title:Manager, Quality Assurance & Control