

Site Quality Self-Assessment

based on

Rx-360 Supplier Assessment Questionnaire

Module 2, Site Specific Information

Relevant for

Sigma-Aldrich Ireland Ltd.
Vale Road, Arklow County Wicklow
Y14 EK18, Ireland
An affiliate of Merck KGaA, Darmstadt, Germany

The site self-assessment covers our quality management system for the following regulated applications:

- Manufacturing of active pharmaceutical ingredient and bulk chemicals



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 Corporation with General Partners Frankfurter Str. 250 64293 Darmstadt, Germany The life science business of Merck KGaA, Darmstadt, Germany operates as MilliporeSigma in the U.S. and Canada.



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 a	attached
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	SECTION 1. General Site Information			
1.1	Site or Facility-Specific Name: Sigma-Aldrich Ireland Ltd.			
1.2	Address: Sigma Aldrich Ireland Ltd. Vale Road Arklow County Wicklow Y14 EK18, Ireland GPS Coordinates: N52 48 17.2 E-6 10 34.8			
1.3	Phone: + 353 (0) 402 20300			
1.4	Email: Please contact your local Sales representative			
1.5	Fax: +353 (0) 402 31147			
1.6	Website: www.sigmaaldrich.com			

SECTION 2. General Site Operating Information				
2.1	What year did the site start operating? 1985			
2.2	What is the primary activity of the site? (e.g. manufacturing, distribution, etc.) The Arklow site is a multi-product facility that specializes in Active Pharmaceutical Ingredient (API) and Bulk Chemical production.			
2.3	To which, if any, subdivision of the parent company does the site belong? Sigma-Aldrich Corporation which is in turn a subsidiary of Merck KGaA, Darmstadt, Germany			
2.4	Size of site (in sq. ft. or m.): 64,000m2 (28,000m2 is developed)			
2.5	Please list or attach the normal hours/schedule of the facilities, including shutdown dates (if applicable): Office hours: 8.30 to 17.00 Monday to Friday Operating hours: 24hrs/ 5.5 days per week Shutdown: last week of July; one week at Christmas			
2.6	Total number of employees on site: 102			
2.7	Total number of employees in Quality: 26			
2.8	Total number of employees in Manufacturing: 44			
2.9	What quality management system is utilized on site? ISO 9001 ISO 13485 ISO 13485 ISO 21 CFR Part 210/211 ISO 21 CFR Part 820 ISO 2000 ISO 2000 ISO 22000			

	SECTION 2. General Site Operating Information				
	Which Regulatory Initiatives does the site follow/comply with? ☐ REACH ☐ RoHs ☐ Ca Prop. 65 ☐ WEEE				
2.10	Does the company/site				
2.11	Is the site registered with any government regulatory agency (FDA registration, GMP certification, etc.)? Yes No N/A If yes, please specify. FDA and HRPA (Healthcare Products Regulatory Authority of Ireland; formerly the IMB/Irish Medicines Board) FDA Registration number: 3002807302 HRPA Registration number: ASR11377/00001				
2.12	By whom is the site inspected (regulatory or third party) and list inspections within the last three years: HPRA 17 to 21 August 2020 HPRA 22 to 26 August 2022 FDA 15 February 2016				
2.13	How often, as an annual average, is the site audited by customers or third parties? The site receives approximately thirty customer audits annually.				
2.14	Has an Rx-360 audit been performed at this site? Yes No Please also state the date of the audit if applicable. 12th and 13th April 2017 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? Yes No				
2.16	Are you willing to have your customers conduct audits on your site? Yes				
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?				

SECTION 2. General Site Operating Information								
	Yes No	N/A						
	If answering yes, please specify the activities:							
	Some QC testing analysis are outsourced. All microbiological testing is outsourced.							
	Storage of Accelerated and Intermediate Stability study samples are outsourced.							
2.19	Please check the supplier controls in place for this facility:							
2.19a	Quality Agreements with	_						
	Suppliers	\times Yes		No	∐ N/A			
2 101	Subsection Over 1: Costion / Audit							
2.19b	Subcontractor Qualification/Audit Program	X Yes		No	□ N/A			
	1 Togram	∑ 1 CS		110	1\/A			
2.19c	Periodic Review of Supplier							
	Performance	Yes Yes		No	N/A			
2.19d	Supplier Feedback Program	X Yes		No	□ N/A			
2.10-	Against Material Compliant ist							
2.19e	Approved Material Supplier List	Yes Yes		No	□ N/A			
2.19f Approved Service Supplier List Yes			No	□ N/A				
	ional comments:							
n/a								
	SECTION 2 Object	ionabla Ma	otoviole	on Sita				
3.1	SECTION 3. Object Does the site or production plant p		aterrais	on Site				
3.1	process or store any of the following	,			Not			
	process or store any or the rone will	-8.	Yes	No	Applicable			
3.1a	Beta-Lactam Antibiotics							
3.1b	Steroids and/or hormones							
3.1c	High potency compounds							
3.1d	Materials of animal origin/Biologic	cs						
3.1e	Live virus or micro-organism							
3.1f	Allergens			\boxtimes				
3.1g	Genetically Modified Organisms (GMO)		\boxtimes				
3.1h	Agrochemicals (Pesticides, Herbic	ides,		\square				
	Fungicides, etc.)							
3.1i	Other (Please specify):							

	n/a			
	SECTION 4. Cross Conta	mination C	ontrol	
4.1	Are any of the following cross-contamination controls in place?	Yes	No	Not Applicable
4.1a	Dedicated Facilities		\boxtimes	
4.1b	Access Controls			
4.1c	Dedicated Personnel			
4.1d	Dedicated Gowning			
4.1e	Procedural Controls			
4.1f	Other (please specify): n/a			
Add	itional Comments:	·	·	·

	SECTION 5. Site Operating P	olicies				
5.1 Does the site utilize the following written policies, programs, or procedures?						
Site Specific:		Yes	No	Not Applicable		
5.1a	Environmental, Health, and Safety					
5.1b	Facility Environmental Control Policy					
5.1c	General Facility Cleaning Procedures					
5.1d	Hygiene and Sterilization Procedures					
5.1e	Validated Equipment Cleaning Procedures					
5.1f	Preventative Maintenance Program/Procedures	\boxtimes				
5.1g	Pest Control Program					
5.1h	Master Production Procedure					
Quality:						
5.1i	Quality Control/Quality Management Policy					
5.1j	Quality Manual					
5.1k	Periodic Product Quality Review	\boxtimes				
5.11	Master Validation Plan	\boxtimes				
5.1m	Risk Assessment Program					
5.1n	Supplier Approval Procedure					
5.1o	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					

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Label Control and Accountability			
Product Release Procedure			
Employee Training Program			
Stability, Expiration, and Shelf-Life Program			
Product Retention Program			
Recall Procedure	\boxtimes		
Customer Complaint Handling			
Equipment validation/qualification procedure			
SECTION 5. Site Operating P	olicies		
	Yes	No	Not Applicable
Internal audit/self-inspection program procedure			
Site Security/Site Access Control Policies	\boxtimes		
Site Security/Site Access Control Policies New Hire Program/Induction Program			
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New Hire Program/Induction Program			
New Hire Program/Induction Program Continuity/Contingency Plan:			
New Hire Program/Induction Program Continuity/Contingency Plan: Disaster Recovery Plan			
New Hire Program/Induction Program Continuity/Contingency Plan: Disaster Recovery Plan Pandemic Preparedness Plan			
	Employee Training Program Stability, Expiration, and Shelf-Life Program Product Retention Program Recall Procedure Customer Complaint Handling Equipment validation/qualification procedure SECTION 5. Site Operating P Internal audit/self-inspection program	Sampling Procedure/Sampling Plan Raw Material Retention Program CAPA Procedure Label Control and Accountability Product Release Procedure Employee Training Program Stability, Expiration, and Shelf-Life Program Product Retention Program Recall Procedure Customer Complaint Handling Equipment validation/qualification procedure SECTION 5. Site Operating Policies Ves Internal audit/self-inspection program	Sampling Procedure/Sampling Plan Raw Material Retention Program CAPA Procedure Label Control and Accountability Product Release Procedure Employee Training Program Stability, Expiration, and Shelf-Life Program Product Retention Program Recall Procedure Customer Complaint Handling Equipment validation/qualification procedure SECTION 5. Site Operating Policies Ves No Internal audit/self-inspection program

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?	\boxtimes		
6.2b	Review of documentation for release?	\boxtimes		
6.2c	Release or rejection of incoming materials?	\boxtimes		
6.3	Does QA/QM investigate and resolve quality complaints?	\boxtimes		
6.4	Does QA/QM investigate and resolve internal deviations?	\boxtimes		

SECTION 6. Quality Assurance and Production				
		Yes	No	Not Applicable
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?			
6.7	Does the facility utilize computerized systems for managing GxP activities or data?			
6.8	Are relevant computerized systems 21 CFR part 11 and EU GMP annex 11 compliant?			
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?			
6.11	Does the company qualify and/or validate manufacturing procedures?			
6.12	Is any environmental monitoring conducted in production/finishing areas?			
6.13	Does the site supply BSE/TSE declarations?			
6.14	Does the site supply a declaration of Elemental Impurities?			
6.15	Are ICH Q3C(R4) solvents used in the manufacturing			
	process of supplied materials?			
6.16	Are stability studies carried out according to ICH guidance?			
6.17	Are solvents and mother liquor reused/recycled?			
6.18	Does the site have a process water treatment system?			
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?	\boxtimes		
6.19b	Is it unique?	\boxtimes		
6.19c	Is batch/lot manufacturing continuous?		\boxtimes	
6.19d	Is manufacturing batch by batch?			
6.20	Does the site perform on-plant audits prior to approving critical GxP suppliers?	\boxtimes		

SECTION 6. Quality Assurance and Production					
		Yes	No	Not Applicable	
6.21	Does the site audit critical GxP suppliers after initial approval?	\boxtimes			
6.22	Does the site inspect incoming materials?	\square			
6.23	Does the site test incoming materials to defined specifications?				
6.24	Does the site establish purchase specifications for raw materials?	\boxtimes			
6.25	Is the equipment multi-use?				
6.26	Does the site qualify equipment installation?				
6.27	Does the site qualify equipment operation?	\boxtimes			
6.28	Does the site qualify equipment performance?	\boxtimes			
6.29	Are production critical use instruments calibrated regularly?	\boxtimes			
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?				
6.33	Are production materials handled and stored in a manner to prevent degradation, contamination and crosscontamination?				
6.34	If answering 'not applicable' for any of the above, please elab	orate:			
Additio	nal Comments:				
6.14 Or	n a case-by-case basis.				
6.16 Stability studies are carried out to ICH standard for APIs and to IPEC standard for non-					
APIs.					
	per regulatory filing.				
6.20, 6.21 This is assessed as part of the approval process, but in some instances may not be					

SECTION 7. Laboratory Procedures N/A for this Site Not Applicable Yes No 7.1 Does the site have standard procedures for sample \boxtimes handling/tracking? Does the site have standard procedures for 7.1a \boxtimes retaining samples? Does the site have standard procedures for re-7.1b \boxtimes testing samples? 7.2 Does the site have written and approved \boxtimes specifications and test methods?

completed prior to approving or is deemed not necessary. A risk-based approach is taken.

	SECTION 7. Laboratory Procedures	[N/A	for this Site
		Yes	No	Not Applicable
7.3	Are laboratory instruments calibrated regularly?			
7.4	Is there a standard procedure in place for analytical method development?			
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 Conformation/Compliance (CoC) for each lot or batch?	\boxtimes		
7.12	Does the CoA/CoC contain the manufacture name and location?			
7.13	Does the CoA/CoC signed/e-signed by a Quality representative?			
7.14	If a repacker performs analyses, will the CoA reflect both the original manufacturing site data as well as the repacking site data?			
7.15	If answering 'not applicable' for any of the above, 7.14 We do not have repacking sub-contractors who perform	L		
7.16	Additional Comments: n/a			
S	ECTION 8. Packaging, Storage, and Trans	sport	\square N/A	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?	\boxtimes		
8.3	Are packaging and labeling areas separate from production?			
8.4	Are barcode readers in use and challenged regularly?	\boxtimes		

8.5 Are vision systems in use? 8.6 Is product ever packaged without a label being initially applied (i.e. bright stocking)? 8.7 Do labels include shelf life/expiration dates? 8.8 Do labels include lot/batch number? 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	rt	☐ N/A for this Site	
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First-Expiration-First-Out system? 8.12 Does the company maintain appropriate storage	\boxtimes		
	\boxtimes		
conditions?	\boxtimes		
8.12a Are those storage conditions monitored and documented?			
8.13 Does the site make available a description of storage and/or warehouse conditions?			
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: 8.13 These are product-specific. 8.15 All approved suppliers and preferred carriers are GDP appr	oved.		

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

Date: 03 Oct 2022

Title:Quality Assurance Engineer