

GMP Site Quality Self-Assessment

based on

Rx-360 Supplier Assessment Questionnaire

Module 2, Site Specific Information

Relevant for

Sigma-Aldrich, Inc. 3300 South Second Street (Cherokee) St. Louis, MO 63118, USA An affiliate of Merck KGaA, Darmstadt, Germany

The site self-assessment covers our quality management system for the following regulated applications: - Manufacturing of pharma raw materials

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 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.

GMP Site Self-Assessment St.Louis Cherokee version 1.2



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 | Site or Facility-Specific Name: |
| | MilliporeSigma |
| | |
| 1.2 | Address: |
| | 3300 S. Second St., St. Louis, MO 63118 USA GPS Coordinates: |
| | GPS Coordinates: |
| | guest entry at 3360 S. Second St. is Lat: 38° 35' 27.9852", Long: -90° 12' 48.204" |
| 1.3 | Phone: |
| | 314-286-6600 |
| 1.4 | Email: |
| | Please refer to your responsible Sales representative |
| 1.5 | Fax: |
| | N/A |
| 1.6 | Website: |
| | milliporesigma.com |

| | SECTION 2. General Site Operating Information | | | | | | | |
|-----|--|--|--|--|--|--|--|--|
| 2.1 | What year did the site start operating? Site in 1986 with upgrade to GMP in 1995. | | | | | | | |
| 2.2 | What is the primary activity of the site? (e.g. manufacturing, distribution, etc.) Manufacturing, process and analytical development, testing and packaging | | | | | | | |
| 2.3 | To which, if any, subdivision of the parent company does the site belong? Merck KGaA, Darmstadt, Germany | | | | | | | |

| | SECTION 2. General Site Operating Information | | | | |
|------|--|--|--|--|--|
| 2.4 | Size of site (in sq. ft. or m.): 400,000 sqft Site | | | | |
| 2.5 | Please list or attach the normal hours/schedule of the facilities, including shutdown dates (if applicable): Bio-Organics operates 24 hours a day, 7 days a week, 365 days a year. Bioconjugation and Protein Purification facilities operate 24 hours a day 5 days a week when in production, otherwise M-F first shift. Maintenance shut downs occur within individual departments twice a year, with staggered timeframes for each department | | | | |
| 2.6 | Total number of employees on site: 380 | | | | |
| 2.7 | Total number of employees in Quality: 78 | | | | |
| 2.8 | Total number of employees in Manufacturing: 57 | | | | |
| 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: cGMP facilities and processes at Cherokee will not be associated with any ISO certification except of Maintenance Which Regulatory Initiatives does the site follow/comply with? REACH RoHs Ca Prop. 65 WEEE | | | | |
| 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.)? | | | | | | |
| | Yes No N/A If yes, please specify. | | | | | | |
| | FDA registration 1937990 and US | DA MO-TEC-00 |)15 | | | | |
| 2.12 | By whom is the site inspected (reg the last three years: FDA, USDA, MFDS | julatory or third p | party) and list in | spections within | | | |
| 2.13 | How often, as an annual average, i 20 times per year | s the site audited | by customers o | or third parties? | | | |
| 2.14 | Has an Rx-360 audit been performed Please also state the date of the audi Please refer to list on the internet for performed at the site in September 2 <u>http://rx-360.org/audit-programs/</u> | t if applicable. r purchasing audi 2021. | - | | | | |
| 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.): No sanctions to reference | | | | | | |
| 2.18 | Does the site outsource any quality- | - | | | | | |
| | | N/A | | | | | |
| | If answering yes, please specify the | | | | | | |
| | Some testing is sourced to outside l management. | aboratories. Som | e calibrations a | ctivities and pest | | | |
| 2.19 | Please check the supplier controls in | place for this fac | cility: | | | | |
| 2.19a | Quality Agreements with Suppliers | 🛛 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 | Xes Xes | 🗌 No | N/A | | | |
| 2.19d | Supplier Feedback Program | 🛛 Yes | 🗌 No | N/A | | | |
| 2.19e | Approved Material Supplier List | 🛛 Yes | 🗌 No | N/A | | | |
| 2.19f | Approved Service Supplier List | Xes Yes | No No | N/A | | | |
| N/A | ionai comments. | | | | | | |

| 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 | | \boxtimes | | | |
| 3.1b | Steroids and/or hormones | | \boxtimes | | | |
| 3.1c | High potency compounds | \square | | | | |
| 3.1d | Materials of animal origin/Biologics | \square | | | | |
| 3.1e | Live virus or micro-organism | | \boxtimes | | | |
| 3.1f | Allergens | | \boxtimes | | | |
| 3.1g | Genetically Modified Organisms (GMO) | | \bowtie | | | |
| 3.1h | Agrochemicals (Pesticides, Herbicides, Fungicides, etc.) | | \boxtimes | | | |
| 3.1i | Other (Please specify): Section 3.1d - Cherokee no longer manufactur however finished product animal containing of temperature units in an animal component con | components | are stored | | | |
| | SECTION 4. Cross Contami | 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 | | | | | |
| 4.1d | Dedicated Gowning | | | | | |
| 4.1e | Procedural Controls | | | | | |
| 4.1f | Other (please specify): N/A | | | | | |

Additional Comments: N/A

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

| 5.1ff | Recall Procedure | \square | | | | |
|----------|--|------------|-------------|-------------|--|--|
| 5.1gg | Customer Complaint Handling | \square | | | | |
| 5.1hh | Equipment validation/qualification procedure | \square | | | | |
| 5.1ii | Internal audit/self-inspection program | | | | | |
| | procedure | | | | | |
| 5.1jj | Site Security/Site Access Control Policies | \square | | | | |
| 5.1kk | New Hire Program/Induction Program | \square | | | | |
| Business | Business Continuity/Contingency Plan: | | | | | |
| 5.111 | Disaster Recovery Plan | \square | | | | |
| 5.1mm | Pandemic Preparedness Plan | \square | | | | |
| 5.1nn | Supply Chain Emergency Preparedness Plan | \square | | | | |
| 5.100 | Business Continuity/Contingency Plan | \square | | | | |
| 5.1pp | Can the company provide a plan upon request? C | OR provide | e a short o | lescription | | |
| | below: | | | | | |
| | Yes | | | | | |
| | | | | | | |

| 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? | | | |
| 6.2 | Does QA/QM have authority over the following: | \square | | |
| 6.2a | Policies and procedures? | \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? | | | |
| 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? | \square | | |
| 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? | | | |

| SECTION 6. Quality Assurance and Production | | | | | |
|---|---|-------------|-------------|-------------------|--|
| | | Yes | No | Not Applicable | |
| 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 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? | | \square | | |
| 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? | \square | | | |
| 6.19a | Is the system traceable? | \square | | | |
| 6.19b | Is it unique? | \square | | | |
| 6.19c | Is batch/lot manufacturing continuous? | | \boxtimes | | |
| 6.19d | Is manufacturing batch by batch? | \square | | | |
| 6.20 | Does the site perform on-plant audits prior to approving | | | | |
| | critical GxP suppliers? | \square | | | |
| 6.21 | Does the site audit critical GxP suppliers after initial | | | | |
| | approval? | | | | |
| 6.22 | Does the site inspect incoming materials? | \boxtimes | | | |
| 6.23 | Does the site test incoming materials to defined | | | | |
| | specifications? | \square | | | |
| 6.24 | Does the site establish purchase specifications for raw | | | | |
| | materials? | | | | |
| 6.25 | Is the equipment multi-use? | \square | | | |
| 6.26 | Does the site qualify equipment installation? | \square | | | |
| 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? | | | | |
| 6.30 | Is rework allowed? | | | | |

| SECTION 6. Quality Assurance and Production | | | | | | |
|---|--|-------------|----|-------------------|--|--|
| | | Yes | No | Not Applicable | | |
| 6.31 | Is reprocessing allowed? | \square | | | | |
| 6.32 | Are manufacturing and packaging activities traceable to the equipment, areas, and materials used? | \boxtimes | | | | |
| 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: N/A | | | | | | |
| Additio | Additional Comments: N/A | | | | | |

| 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? | \boxtimes | | | |
| 7.2 | Does the site have written and approved specifications and test methods? | \boxtimes | | | |
| 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? | \square | | | |
| 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? | | | | |

| SECTION 7. Laboratory Procedures | | | N/A for this Site | |
|----------------------------------|---|-------------|--------------------------|----------------|
| | | Yes | No | Not Applicable |
| 7.12 | Does the CoA/CoC contain the manufacture name and location? | \boxtimes | | |
| 7.13 | Does the CoA/CoC signed/e-signed by a Quality representative? | \boxtimes | | |
| 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, j Our material is not sent to a repacker. | please elab | oorate: | |
| 7.16 | Additional Comments: N/A | | | |

| S | SECTION 8. Packaging, Storage, and Trans | | | sport 🛛 N/A for this Site | | |
|-------|--|-------------|-------------|---------------------------|--|--|
| | | Yes | No | Not Applicable | | |
| 8.1 | Does the site have a validated or qualified labeling system? | | \boxtimes | | | |
| 8.2 | Are batch production records retained and available? | \boxtimes | | | | |
| 8.3 | Are packaging and labeling areas separate from production? | \boxtimes | | | | |
| 8.4 | Are barcode readers in use and challenged regularly? | | \boxtimes | | | |
| 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? | \boxtimes | | | | |
| 8.10 | Is tamper evident seal used for each container of supplied materials? | \boxtimes | | | | |
| 8.11 | Does the company use a First-In-First-Out or First-Expiration-First-Out system? | \boxtimes | | | | |
| 8.12 | Does the company maintain appropriate storage conditions? | \boxtimes | | | | |
| 8.12a | Are those storage conditions monitored and documented? | \boxtimes | | | | |
| 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? | | | | | |
| 8.15 | Are good distribution policies implemented? | | | \square | | |

| SECTION 8. Packaging, Storage, and Transport | | | □ N/A for this Site | | |
|--|--|-----|---------------------|----------------|--|
| | | Yes | No | Not Applicable | |
| 8.16 | Are transport mechanisms dedicated? | | \square | | |
| 8.17 | Does the company validate shipping method? | | \square | | |
| 8.18 | Does the company validate packaging methods? | | \square | | |
| Additional Comments: 8.17 and 8.18, Shipping and packaging methods can be validated if | | | | | |
| requested by customer. | | | | | |

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

Date: 21st September 2023 Title:Quality Director