

# GMP Site Quality Self-Assessment

based on

## Rx-360 Supplier Assessment Questionnaire

### Module 2, Site Specific Information

Relevant for

**Merck KGaA**  
**Frankfurter Str. 250**  
**64293 Darmstadt**  
**Germany**

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

- Manufacturing of Excipients, APIs, food additives and cell culture media

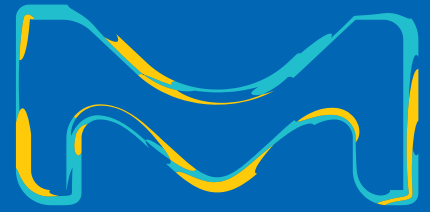
The site also processes products which do not fall under any of the above mentioned regulated areas. For these products, other quality standards apply. For details, please refer to our non-GMP Quality Site Self-Assessment.



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.



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

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.

☒ Please check here if additional documents are attached.

### SECTION 1. General Site Information

|     |  |
|-----|--|
| 1.1 | Site or Facility-Specific Name: Merck KGaA, Darmstadt, Germany<br>(Life Science, Site Darmstadt)     |
| 1.2 | Address: Frankfurter Str. 250, 64293 Darmstadt Germany<br><br>GPS Coordinates: 49.89510°N, 8.65384°E |
| 1.3 | Phone: +49 6151 72-0   |
| 1.4 | Email: Please refer to your local Sales representative   |
| 1.5 | Fax: Please refer to your local Sales representative   |
| 1.6 | Website: www.sigmaaldrich.com  |

### SECTION 2. General Site Operating Information

|     |   |
|-----|---|
| 2.1 | What year did the site start operating?<br>1904   |
| 2.2 | What is the primary activity of the site? (e.g. manufacturing, distribution, etc.)<br>Manufacturing of GMP products: API, pharmaceutical excipients, food ingredients, cell culture media;<br><br>Manufacturing of IVDs, reference materials and ISO regulated products: see non-GMP Site Self-Assessment |
| 2.3 | To which, if any, subdivision of the parent company does the site belong?<br>Life Science   |
| 2.4 | Size of site (in sq. ft. or m.): 1.2 km <sup>2</sup>  |
| 2.5 | Please list or attach the normal hours/schedule of the facilities, including shutdown dates (if applicable):<br>24 h hours of production, 7 days a week, 5 shifts, few shutdowns every year   |
| 2.6 | Total number of employees on site: approx. 10000  |
| 2.7 | Total number of employees in Quality: approx. 390 (Life Science)  |

|      |   |   |  |
|------|---|---|--|
| 2.8  | Total number of employees in Manufacturing: approx. 1360 (Life Science)   |   |  |
| 2.9  | <p>What quality management system is utilized on site?</p> <p> <input checked="" type="checkbox"/> ISO 9001<br/> <input checked="" type="checkbox"/> ISO 13485<br/> <input checked="" type="checkbox"/> 21 CFR Part 210/211<br/> <input checked="" type="checkbox"/> 21 CFR Part 820<br/> <input type="checkbox"/> European GMP, Eudralex Volume 4 Part I<br/> <input checked="" type="checkbox"/> European GMP, Eudralex Volume 4 Part II<br/> <input checked="" type="checkbox"/> ICH Q7<br/> <input checked="" type="checkbox"/> HACCP<br/> <input type="checkbox"/> ISO 22000<br/> <input checked="" type="checkbox"/> Other         </p> <p>Please describe: DIN EN ISO 17034, DIN EN ISO/IEC 17025, ISO 14001, ISO 45001, ISO 50001, EXCiPACT®, AMWHV, AMG, LMHV, IVDR</p> <p>Which Regulatory initiatives does the site follow/comply with?</p> <p> <input checked="" type="checkbox"/> REACH<br/> <input type="checkbox"/> RoHs<br/> <input type="checkbox"/> Ca Prop. 65<br/> <input type="checkbox"/> WEEE         </p> |   |  |
| 2.10 | Does the company/site have an export license?   | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No <input type="checkbox"/> N/A |
| 2.11 | <p>Is the site registered with any government regulatory agency (FDA registration, GMP certification, etc.)?</p> <p> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A         </p> <p>If yes, please specify.</p> <p>FDA FEI 3002806906</p> <p>Hessisches Landesamt für Gesundheit und Pflege, Germany</p>  |   |  |
| 2.12 | <p>By whom is the site inspected (regulatory or third party) and list inspections within the last three years:</p> <p>Regierungspräsidium Darmstadt (API): 2021; 2022</p> <p>Hessisches Landesamt für Gesundheit und Pflege (API): 2023</p> <p>Blue Inspection (EXCiPACT®): 2021</p> <p>SGS (EXCiPACT®): 2022, 2023</p> <p>DQS (ISO 9001): annually</p> <p>TÜV SÜD (ISO 13485, IVDR): annually</p> <p>DAkKS (DIN EN ISO 17034, DIN EN ISO/IEC 17025): annually</p>  |   |  |
| 2.13 | <p>How often, as an annual average, is the site audited by customers or third parties?</p> <p>45</p>  |   |  |
| 2.14 | <p>Has an Rx-360 audit been performed at this site?</p> <p> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No         </p> <p>Please also state the date of the audit if applicable. 21.02.2023 - 22.02.2023</p> <p><a href="#">Learn more about the Rx-360 Joint Audit Program® here.</a></p>  |   |  |
| 2.15 | <p>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?</p> <p> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No         </p>  |   |  |
| 2.16 | <p>Are you willing to have your customers conduct audits on your site?</p>  |   |  |

|       |  |   |                             |                              |
|-------|--|---|-----------------------------|------------------------------|
|       | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  |   |                             |                              |
| 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?<br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A<br><br>If answering yes, please specify the activities: partially manufacturing, partially warehousing, partially laboratory testing, partially services like pest control |   |                             |                              |
| 2.19  | Please check the supplier controls in place for this facility:   |   |                             |                              |
| 2.19a | Quality Agreements with Suppliers  | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A |
| 2.19b | Subcontractor Qualification/Audit Program  | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A |
| 2.19c | Periodic Review of Supplier Performance  | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A |
| 2.19d | Supplier Feedback Program  | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A |
| 2.19e | Approved Material Supplier List  | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A |
| 2.19f | Approved Service Supplier List   | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A |

**Additional comments:**

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### 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   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| 3.1b | Steroids and/or hormones  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| 3.1c | High potency compounds  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| 3.1d | Materials of animal origin/Biologics  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| 3.1e | Live virus or micro-organism  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| 3.1f | Allergens   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3.1g | Genetically Modified Organisms (GMO)  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| 3.1h | Agrochemicals (Pesticides, Herbicides, Fungicides, etc.)                          | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

|      |  |
|------|--|
| 3.1i | <p>Other (Please specify):</p> <p>Highly sensitizing materials, such as penicillins, are not produced on site Darmstadt.</p> <p>Cephalosporines and Penicillins are only handled in separated non-GMP production areas in separated buildings. Other beta-lactam drugs, compounds, intermediates or products are neither produced nor handled in production, distribution, warehousing or sampling facilities.</p> <p>Live viruses, allergens and agrochemicals (pesticides, herbicides, fungicides, etc.) are not handled on the site resp. in the facilities.</p> <p>Microorganisms are only handled in one specialized production area as well as in microbiological laboratories with relevant safety zones.</p> <p>Materials with high pharmacological activity or toxicity (e.g. certain steroids or cytotoxic anti-cancer agents) are not produced in shared equipment unless validated and/or cleaning procedures as well as other risk-minimizing actions are established and maintained.</p> <p>Handling of materials of animal origin, biologics and genetically modified organisms is under control by a validated ERP system and separated equipment and production / processing lines or buildings while risk-minimizing actions are established and maintained.</p> |
|------|--|

#### SECTION 4. Cross-Contamination Control

| 4.1  | Are any of the following cross-contamination controls in place?                     | Yes                                 | No                       | Not Applicable           |
|------|---|-------------------------------------|--------------------------|--------------------------|
| 4.1a | Dedicated Facilities  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4.1b | Access Controls   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4.1c | Dedicated Personnel   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4.1d | Dedicated Gowning   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4.1e | Procedural Controls   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4.1f | Other (Please specify): Shared facilities for sampling. Risk assessment is in place |                                     |                          |                          |

**Additional Comments:**

Dedicated facilities in production for product families, but not on product level. Procedural controls comprise cleaning verification/validation and campaign manufacturing.

## SECTION 5. Site Operating Policies

|                       |   |                                     |                          |                          |
|-----------------------|---|-------------------------------------|--------------------------|--------------------------|
| 5.1                   | Does the site utilize the following written policies, programs or procedures? |                                     |                          |                          |
| <b>Site Specific:</b> |   | <b>Yes</b>                          | <b>No</b>                | <b>Not Applicable</b>    |
| 5.1a                  | Environmental, Health and Safety  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5.1b                  | Facility Environmental Control Policy   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5.1c                  | General Facility Cleaning Procedures  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5.1d                  | Hygiene and Sterilization Procedures  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5.1e                  | Validated Equipment Cleaning Procedures                                       | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5.1f                  | Preventative Maintenance Program/Procedures                                   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5.1g                  | Pest Control Program  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5.1h                  | Master Production Procedure   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <b>Quality:</b>       |   |                                     |                          |                          |
| 5.1i                  | Quality Control/Quality Management Policy                                     | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5.1j                  | Quality Manual  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5.1k                  | Periodic Product Quality Review   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5.1l                  | Master Validation Plan  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5.1m                  | Risk Assessment Program   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5.1n                  | Supplier Approval Procedure   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5.1o                  | Monitoring and Review of Approved Suppliers                                   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5.1p                  | Mechanism to Reduce Testing   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5.1q                  | Receiving Incoming Inspection   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5.1r                  | Change Control Procedures   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5.1s                  | Document Management Policy  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5.1t                  | Document Retention Policy   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5.1u                  | Change Notification Procedures for Clients                                    | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5.1v                  | Control of Nonconforming Material   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5.1w                  | Deviation/Investigation Procedure   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5.1x                  | Out of Specification Policy and Procedure                                     | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

|  |   |                                     |                          |                          |
|--|---|-------------------------------------|--------------------------|--------------------------|
| 5.1y   | Sampling Procedure/Sampling Plan  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5.1z   | Raw Material Retention Program  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5.1aa  | CAPA Procedure  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5.1bb  | Label Control and Accountability  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5.1cc  | Product Release Procedure   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5.1dd  | Employee Training Program   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5.1ee  | Stability, Expiration, and Shelf-Life Program   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5.1ff  | Product Retention Program   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5.1gg  | Recall Procedure  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5.1hh  | Customer Complaint Handling   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5.1ii  | Equipment validation/qualification procedure  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5.1jj  | Internal audit/self-inspection program procedure  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5.1kk  | Site Security/Site Access Control Policies  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5.1ll  | New Hire Program/Induction Program  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <b>Business Continuity/Contingency Plan:</b> |   |                                     |                          |                          |
| 5.1mm  | Disaster Recovery Plan  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5.1nn  | Pandemic Preparedness Plan  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5.1oo  | Supply Chain Emergency Preparedness Plan  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5.1pp  | Business Continuity/Contingency Plan  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5.1qq  | Can the company provide a plan upon request? OR provide a short description below:<br>can be provided in an audit |                                     |                          |                          |

## 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? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6.2  | Does QA/QM have authority over the following:  |                                     |                          |                          |
| 6.2a | Policies and procedures?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6.2b | Review of documentation for release?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6.2c | Release or rejection of incoming materials?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |



|       |  |                                     |                          |                          |
|-------|--|-------------------------------------|--------------------------|--------------------------|
| 6.3   | Does QA/QM investigate and resolve quality complaints?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6.4   | Does QA/QM investigate and resolve internal deviations?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6.5   | Does QA/QM have the authority to assign a disposition to materials?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6.6   | Does QA/QM review manufacturing and testing records prior to release?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6.7   | Does the facility utilize computerized systems for managing GxP activities and data?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6.8   | Are relevant computerized systems 21 CFR part 11 and EU GMP annex 11 compliant?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6.9   | Does the site use statistical methods for consistency and uniformity?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6.10  | Does the site use controlled documents for following and recording manufacturing instructions?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6.11  | Does the company qualify and/or validate manufacturing procedures?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6.12  | Is any environmental monitoring conducted in production/finishing areas?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6.13  | Does the site supply BSE/TSE declarations?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6.14  | Does the site supply a declaration of Elemental Impurities?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6.15  | Are ICH Q3C solvents used in the manufacturing process of supplied materials?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6.15a | If Yes, what class of solvent is used? product-specific  |                                     |                          |                          |
| 6.16  | Are stability studies carried out according to ICH guidance?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6.17  | Are solvents and mother liquor reused/recycled?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6.18  | Does the site have a process water treatment system?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6.18a | Please check all that apply to the system:<br><input checked="" type="checkbox"/> City/potable water<br><input type="checkbox"/> Distilled water<br><input checked="" type="checkbox"/> Deionized water<br><input type="checkbox"/> Water for injection (WFI)<br><input checked="" type="checkbox"/> Reverse Osmosis<br><input type="checkbox"/> Clean steam<br><input type="checkbox"/> Ultra-filtrated water (purified water)<br><input checked="" type="checkbox"/> Other: WFI applied where applicable; purified water according to Ph Eur |                                     |                          |                          |
| 6.19  | Does the plant have a batch/lot system?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6.19a | Is the system traceable?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6.19b | Is it unique?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6.19c | Is batch/lot manufacturing continuous?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6.19d | Is manufacturing batch by batch?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6.20  | Does the site perform on-plant audits prior to approving critical GxP suppliers?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6.21  | Does the site audit critical GxP suppliers after initial approval?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

|      |  |                                     |                          |                          |
|------|--|-------------------------------------|--------------------------|--------------------------|
| 6.22 | Does the site inspect incoming materials?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6.23 | Does the site test incoming materials to defined specifications?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6.24 | Does the site establish purchase specifications for raw materials?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6.25 | Is the equipment multi-use?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6.26 | Does the site qualify equipment installation?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6.27 | Does the site qualify equipment operation?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6.28 | Does the site qualify equipment performance?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6.29 | Are production critical use instruments calibrated regularly?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6.30 | Is rework allowed?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6.31 | Is reprocessing allowed?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6.32 | Are manufacturing and packaging activities traceable to the equipment, areas, and materials used?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6.33 | Are production materials handled and stored in a manner to prevent degradation, contamination and cross-contamination?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6.34 | If answering 'not applicable' for any of the above, please elaborate: *6.16: where required by regulations; *6.19c/d depends on product / production process, a batch definition is always applied; *6.30: for API not allowed |                                     |                          |                          |

**Additional Comments:**

| <b>SECTION 7. Laboratory Procedures</b> |  | <input type="checkbox"/> N/A for this Site |                          |                          |
|---|--|--|--------------------------|--------------------------|
|   |  | <b>Yes</b>                                 | <b>No</b>                | <b>Not Applicable</b>    |
| 7.1                                     | Does the site have standard procedures for sample handling/tracking? | <input checked="" type="checkbox"/>        | <input type="checkbox"/> | <input type="checkbox"/> |
| 7.1a                                    | Does the site have standard procedures for retaining samples?        | <input checked="" type="checkbox"/>        | <input type="checkbox"/> | <input type="checkbox"/> |

|      |   |                                     |                          |                                     |
|------|---|-------------------------------------|--------------------------|-------------------------------------|
| 7.1b | Does the site have standard procedures for retesting samples?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 7.2  | Does the site have written and approved specifications and test methods?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 7.3  | Are laboratory instruments calibrated regularly?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 7.4  | Is there a standard procedure in place for analytical method development?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 7.5  | Does the site qualify and/or validate analytical test procedures?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 7.6  | Does the site perform stability testing on materials and/or products?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 7.7  | Are retention samples of key raw materials maintained?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 7.8  | Are standards traceable to their preparation and reagents used?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 7.9  | Are retention samples of finished products maintained?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 7.10 | Are shelf life/retest/expiration dates available and standardized?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 7.11 | Does the company provide a certificate of analysis (CoA) and/or a Certificate of Conformation/Compliance (CoC) for each lot or batch?                   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 7.12 | Does the CoA/CoC contain the manufacture name and location?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 7.13 | Is the CoA/CoC signed/e-signed by a Quality representative?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 7.14 | If a repacker performs analyses, will the CoA reflect both the original manufacturing site data as well as the repacking site data?                     | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 7.15 | If answering 'not applicable' for any of the above, please elaborate: 7.14: Our life science products produced at Darmstadt are not repacked externally |                                     |                          |                                     |

**Additional Comments:**

\*7.15: for food ingredients not applicable

| <b>SECTION 8. Packaging, Storage and Transport</b> |  | <input type="checkbox"/> N/A for this Site |           |                       |
|--|--|--|-----------|-----------------------|
|  |  | <b>Yes</b>                                 | <b>No</b> | <b>Not Applicable</b> |

|       |  |                                     |                                     |                          |
|-------|--|-------------------------------------|-------------------------------------|--------------------------|
| 8.1   | Does the site have a validated or qualified labeling system?                             | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| 8.2   | Are batch production records retained and available?                                     | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| 8.3   | Are packaging and labeling areas separate from production?                               | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| 8.4   | Are barcode readers in use and challenged regularly?                                     | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| 8.5   | Are vision systems in use?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| 8.6   | Is product ever packaged without a label being initially applied (i.e. bright stocking)? | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 8.7   | Do labels include shelf life/expiration dates?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| 8.8   | Do labels include lot/batch number?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| 8.9   | Do labels include requirements for storage conditions?                                   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| 8.10  | Is tamper evident seal used for each container of supplied materials?                    | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| 8.11  | Does the company use a First-In-First-Out or First-Expiration-First-Out system?          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| 8.12  | Does the company maintain appropriate storage conditions?                                | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| 8.12a | Are those storage conditions monitored and documented?                                   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| 8.13  | Does the site make available a description of storage and/or warehouse conditions?       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| 8.14  | Does the site distribute products via a third party?                                     | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| 8.15  | Are good distribution policies implemented?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| 8.16  | Are transport mechanisms dedicated?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| 8.17  | Does the company validate shipping method?   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 8.18  | Does the company validate packaging methods?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |

**Additional Comments:**

\*8.6 products are always labeled in production / filling line

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

Title: QMS & Compliance Life Science Darmstadt

Date: August 2024

**Additional Site-Specific Information**  
**(not based on Rx 360 Supplier Assessment Questionnaire)**

| <b>9. Data Management and Controls</b> |   | <b>Yes</b>                          | <b>No</b>                              |
|--|---|-------------------------------------|--|
| 9.1                                    | List the GMP/GXP computerized systems register that are used for GMP operations.<br>Note: Far too many validated IT-systems to list them in this document, an Inventory is available.               |                                     |  |
| 9.2                                    | Are the electronic systems in use validated?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>               |
| 9.3                                    | Are validation documents for the computerized systems available and approved?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>               |
| 9.4                                    | Are changes to the systems managed under the change control procedure? i.e., hardware, software, system documents and records and data contained within the system?                                 | <input checked="" type="checkbox"/> | <input type="checkbox"/>               |
| 9.5                                    | Is there a procedure for dealing with incidents/issues/deviations with electronic systems?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>               |
| 9.6                                    | Is there a procedure to document periodic evaluations of electronic systems against the relevant regulation requirements? i.e., 21 CFR Part 11, EMA Annex 11 Computerized systems<br><br>Frequency: | <input checked="" type="checkbox"/> | <input type="checkbox"/><br><br>1 year |
| 9.7                                    | Is there a procedure for audit trail review, including both system owner and IT administrator?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>               |
| 9.8                                    | Are there plans to upgrade software systems that do not have full audit trail capabilities?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>               |
| 9.9                                    | Is all data available in human readable format for inspections?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>               |
| 9.10                                   | Is there a procedure which defines the retention periods for electronic for electronic records?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>               |
| 9.11                                   | Is there a procedure for the backup, recovery and archival of electronic data?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>               |
| 9.12                                   | Is the backup completed automatically by the system or manually with a defined frequency?   | Automatic                           |  |

|        |   | Yes                                 | No                                  |
|--------|---|-------------------------------------|-------------------------------------|
| 9.13   | Does back up data include relevant raw data, metadata and audit trail data?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| 9.14   | Where is the backup data stored?  | Data Center / TSM                   |                                     |
| 9.15   | Is there a disaster recovery procedure?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| 9.16   | Are individual user ID's assigned to users of an electronic system?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| 9.17   | Is the individual's identity verified prior to assignment of their electronic signature?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| 9.18   | Is there a procedure which defines how access to the electronic system is limited to authorized individuals?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| 9.19   | Is there a procedure that defines how access is granted and removed for users of validated systems?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| 9.20   | Is a review performed to ensure that the ability to apply electronic signatures is withdrawn for individuals whose responsibilities change or no longer need access or who have left the company? | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| 9.21   | Is the responsibility of the administrator role assessed?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| 9.22   | Is there a procedure which defines the following?   |                                     |                                     |
| 9.22.a | How re-setting of an electronic password is managed (i.e., token or temporary password)   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| 9.22.b | Periodic changing of passwords?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| 9.22.c | Delegation of an electronic signature responsibilities (e.g., holidays, period of absence, employee leaves the company)   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 9.22.d | The controls in place to prevent deleting, copying, or transferring to falsify an electronic record within the system   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| 9.23   | Does the Self-inspection program include data integrity elements?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| 9.24   | Can it be demonstrated that the electronic signature used in computerized systems show the following:   |                                     |                                     |
| 9.24.a | Name of the signatory   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| 9.24.b | System date that the signature was applied  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| 9.24.c | System time (if time of actions is required/critical)   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| 9.24.d | Meaning of signature  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| 9.25   | Do Computer from Automated systems have physical and/or logical security controls including:  |                                     |                                     |
| 9.25.a | Authority checks to ensure that only authorized individuals can use the system, electronically sign a record, alter a record, or perform the operation at hand                                    | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |

**Additional Site-Specific Information**  
**(not based on Rx 360 Supplier Assessment Questionnaire)**

**10. Lot numbering information**

**E.g.: A12345678**

**letters = plant code**

**digits = running identification number, the last two digits = last two digits of item number**

A lot is defined as a product volume produced in a continuous process in a set period of time without interruption and regarded as homogenous due to product specific criteria. The homogeneity is ensured by fulfilling the requirements defined in the SOP "Assessment of Batch Homogeneity"