**Document approval**

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# Purpose

This Standard Operating Procedure (SOP) aims to establish the Supplier Management process used to evaluate and qualify Suppliers against the internal, customer, and regulatory agency-specified requirements.

# Scope

This SOP is valid at NBE-Therapeutics for all Organization. The respective training shall be given in accordance with **SOP-10 Training Management**.

This SOP process applies to all Suppliers NBE-Therapeutics receives quality-relevant goods and services. This includes but is not limited to:

* + Raw Materials (Active Substances and excipients),
  + Intermediate Products,
  + Packaging Materials (primary and secondary packaging Materials),
  + High complexity equipment, particularly if it was customized at NBE-Therapeutics request,
  + Outsourced activities (e.g., contract laboratories, maintenance and calibration, cleaning services).

# Responsibilities

Responsible for the content of this SOP is e.g., Quality Management Director.

| **Role** | **Definition/Task** |
| --- | --- |
| **Quality Organization** | * Is responsible for this SOP and management of the Supplier Management, * Coordinates activities related to Supplier Qualification, including approval and disqualification of Suppliers, * Signs Quality Assurance Agreement, * Presents status updates of Suppliers and Supplier Management at Management Review, * Performs the risk analysis as part of the Supplier Qualification process, * Manages Supplier Audits, * Ensures Supplier re-qualification is conducted on time following the Supplier risk classification, * Communicates Events (e.g., shipping complications, deviations, OOS results) to the relevant Line Managers and Purchasing, as necessary * Supports the corrective action associated with any Supplier Events, and * Owns the Qualified Supplier List and ensures it is up-to-date. |
| **Line Managers (or designee)** | * Ensures that the Supplier Management process is carried out in their Team/Department, * Takes part in the choice and qualification of potential Suppliers, * Compiles “technical data” including a detailed description (e.g., process instructions, SOP, user requirement Specification, Material user requirement Specification) of the service the Supplier will provide, * Evaluates Product / Material samples regarding their technical suitability and processing properties, as applicable, * Communicates Events (e.g., shipping complications, Deviations, Nonconformances, OOS results) to Quality Organization, * Responds appropriately to quality issues and complications involving the Supplier as part of an Event. |
| **Purchasing Team** | * Primary liaison with the Supplier, * Takes part in the choice of potential Suppliers, * Ensures that agreements are signed and countersigned by the appropriate parties, * Collects the necessary documents for Supplier Qualification, * Verifies the Supplier is categorized as qualified before each new order/purchase, * Forwards information from the Supplier regarding planned or existing changes and other quality-relevant information to Quality Organization and the impacted Line Managers, * Communicates Events (e.g., shipping complications, Deviations, Nonconformances, OOS results) to Quality Organization, the Line Manager. |

# Definitions, terms and abbreviations

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Term/abbreviation** | | | **Definition at NBE-Therapeutics** | | |
| **Master Purchase Agreements (MPA) or Master Service Agreement (MSA)** | | | A framework agreement that deals with the general legal terms of the Supplier relationship. It regulates the framework conditions of the legal relationship, such as rights and obligations, and is specified in later individual contracts and orders. | | |
| **Material** | | | A general term refers to Raw, Starting Materials and packaging Materials. | | |
| **Non-Disclosure Agreement (NDA)** | | | General agreement regarding the confidential treatment of data and information. | | |
| **Product** | | | Collective term for intermediate Products. | medicines, Raw | Materials, and |
| **Quality (QAA)** | **Assurance** | **Agreement** | Contractual definition of the general framework and processes and an individual detailed delimitation of liability between NBE-Therapeutics and the Supplier are necessary to achieve the desired quality target. | | |
| **Raw Material** | | | Every Material is employed in producing a drug (Active Substance and excipient), except for the packaging Material. | | |
| **Supplier** | | | Organization that provides a product or a service | | |
| URS | | | User Requirement Specification | | |

# Workflow

## Documenting Requirements for a Supplier

The responsible Line Manager defines and documents the service or Products/Materials and quality standards expected from either a new Supplier or an existing and qualified Supplier providing a new Product, Material, or service.

The documentation may include:

* A User Requirement Specification (URS)
* Another form of Specification
* A draft of an agreement
* An extract of the catalog of the Supplier (e.g., for sample orders)
* The names of known Suppliers who can provide the Product, Material, or service

The Line Manager sends the documents to Purchasing to evaluate whether there is an existing qualified Supplier who can provide the Material or service.

If there is no existing qualified Supplier, Purchasing initiates the Supplier selection and qualification process. If there is a current qualified Supplier, Purchasing notifies Quality Organization for re- evaluation of the risk assessment for the new Product, Material, or service be supplied.

## Selection of a (new) Supplier

Purchasing selects a potential Supplier or Suppliers and initiates the communication with the Supplier, sending the documentation provided by the Line Manager that describes the service or Materials needed.

The selection of a new supplier and any significant changes to approved suppliers shall be a subject of Change Management procedure. All involved persons shall follow principles of **SOP-05 Change Management**.

For Materials, Purchasing may request that the potential Supplier utilize a shipping company that is an existing and qualified shipping Supplier of NBE-Therapeutics.

The Purchasing Team and the Line Manager may also request Material samples from the potential Supplier.

An Non-Disclosure Agreement (NDA) is necessary for Suppliers who receive sensitive or proprietary information with NBE-Therapeutics. Before the provision of the documentation or after the condition of the initial request but before additional discussions with the potential Supplier. Depending on the nature of shared information, Purchasing will align with the Line Manager if confidential information is shared, which requires implementation of an NDA. and at what point in the communication process it needs to be executed.

An NDA is not necessary for Suppliers who do not receive sensitive or proprietary information with NBE-Therapeutics.

## Supplier Self-Assessment

After selecting the potential Supplier and, if applicable, signing the NDA, Purchasing, in conjunction with Quality Organization, prepare a **Supplier Self Assessment draft according to Supplier Self Assessment Form.** In the case of a valid ISO 9001 or ISO 13485 in conjunction with a GMP certificate, only mandatory sections of **Supplier Self Assessment Form** are required.

The responsible Line Manager, Quality Organization, and/or Purchasing may request additional documents to aid in the qualification process, such as:

* GMP certificates
* Information on other certifications (e.g., compliance to DIN, EN, ISO)
* Lists of references of other companies that the potential Supplier currently provides Materials or services to
* Any additional technical information that may be required to conduct the qualification decision process
* If applicable, results of quality tests performed to assess the samples of materials
* A list of the potential Supplier’s Audits/inspections and performance of Audits/inspections (e.g., FDA or other government inspections, ISO Audits, etc.)

The completed **Supplier Self Assessment Form** and associated documents provided by the potential Supplier are evaluated by Quality Organization. In consultation with the Line Manager and other internal parties, Quality Organization will determine whether a candidate is suitable for further evaluation. The decision is recorded by Quality Organization on the last page of the **Supplier Self Assessment Form**.

## Technical Visit and/or Audit (optional)

The Line Manager and Quality Organization may determine that a technical visit is necessary to evaluate the potential Supplier further. Suppose the responsible Line Manager and Quality Organization decides to do a technical visit. In that case, Purchasing will agree on a first visit with the potential Supplier (after initial evaluation of the Supplier Self-Assessment Form by Quality Organization).

The technical visit aims to:

* Clarify general questions of purchase, e.g., capacities and resources (infrastructure, equipment, personnel),
* Clarify the technical feasibility and methodical competence of the candidate, and
* Discuss questions of the candidate regarding the User Requirement Specification.

The results of the technical visit are recorded in the potential Supplier’s file. The Line Manager and Quality Organization decide whether the candidate is appropriate to continue the qualification process.

Depending on the Material or service being supplied, Quality Organization may determine that an Audit is necessary before performing the qualification process. Suppose it is determined that the potential Supplier requires both a technical visit and an Audit. In that case, the Audit may be performed at the time of the initial visit or before/after the technical visit.

Audits should be performed for:

* Contract laboratories,

Suppliers of:

* Raw Materials
* Excipients rated as critical

The results of the Audit are recorded in the potential Supplier’s file. The Line Manager and Quality Organization decide whether the candidate is appropriate to continue the qualification process.

## Risk Assessment and Classification

After evaluation of the completed **Supplier Self Assessment Form** and conduction of any technical visits or Audits, as necessary, Quality Organization and material / service requestor perform risk assessment and classification and record the results in **Supplier Evaluation record** according to **Supplier Evaluation Form**. All risk assessment participants must follow the principles and requirements of **SOP-09 Quality Risk Management.**

***For existing and qualified Suppliers, the current risk assessment is re-evaluated for any new/additional service or Material, as the provision of the new service or Material may entail other risks not contemplated in the initial risk assessment.***

Risk assessment shall take into consideration the following:

* The risk of the Material or service to be outsourced, including NBE-Therapeutics’s dependence on the Material or service to meet internal deadlines
* Whether the Supplier outsources any of their work to other third parties
* The Supplier’s expertise and level of experience.
* The Supplier’s ability to provide:
* Prompt availability and flexibility,
* Punctuality and adherence to delivery dates, and
* Rapid response to queries from customers
* The experience of the potential Supplier with GMP and the maturity of their quality system, including the following:
* Existence of and compliance with quality standards,
* Ability to comply with the requirements of NBE-Therapeutics,
* Existence and maturity of a QMS,
* Reliable shipping and adherence to delivery dates,
* Professional and technical suitability and competence,
* Sufficient resources (e.g., infrastructure, equipment, personnel),
* If applicable, a valid Production permit, a valid GMP certificate, or another certificate of lawfulness specific to the area (e.g., ISO certificates),
* Regulatory authority monitoring, if applicable, and

Based on the risk assessment, Quality Organization assigns each Supplier a Risk class:

**Risk class 1**

For Suppliers with high risk, the assessment and evaluation of the Supplier are based on written reports (e.g., Self-Assessment Form), the performance of quality tests, e.g., assessment of Product / Material samples, and additional Audits. Suppliers of Risk class 1 are requalified **every year**.

**Risk class 2**

For Suppliers with medium risk, the assessment and evaluation of the Supplier are based on written reports (e.g., Self-Assessment Form) and the performance of quality tests (e.g., assessment of Product / Material samples). Suppliers of Risk class 2 are requalified **every three (3) years**.

**Risk class 3**

For Suppliers with low risk, the assessment and evaluation of the Supplier are based on their shipping history and a verification of their quality-relevant documents (e.g., Supplier Self Assessment Form). Suppliers in risk class 3 are requalified **every five (5) years**.

The results of the risk assessment are recorded in Supplier Evaluation record and Qualified Supplier List.

## Contractual Agreement and procurement

Suppliers classified as Risk class 1 and 2 require implementing a basic contractual agreement, a Master Purchase Agreement (MPA), upon the issue of any order. Class 3 Supplier implementation of an MPA is not required; Materials and Services can be appointed by formal purchase order only, based on a Supplier quote, offer, or similar.

The MPA can be a standard agreement created by NBE-Therapeutics or the Supplier. e.g., CEO or person with appropriate power of attorney signs MPA after consultations with Material / service requestor and Quality Organization. If required, Quality Assurance Agreement shall be signed jointly with MPA.

In the case of Suppliers that are already qualified and take on an additional activity, the existing contract may need to be revised and updated. Purchasing will initiate this.

Before the first order is issued, Purchasing verifies that the MPAs (for Risk class 1 and 2 only), the NDA, if applicable, Quality Assurance Agreement, and any other agreements are signed, as necessary, and that the Supplier status has been updated to “qualified.”

An order can be based on:

* Contractual agreements,
* A Product or Material Specification approved by NBE-Therapeutics and confirmed by the Supplier’s quote or offer,
* A Specification for customer requests approved by NBE-Therapeutics and confirmed by the Supplier’s quote or offer,
* An order number from an official catalog of the Supplier, and
* An offer/performance Specification.

Before any order placement, Purchasing ensures that the procedures and approvals per NBE-Therapeutics’s purchasing process are completed.

## Quality Agreement

**Quality Assurance Agreement** is a general agreement in which the quality standards of both contract partners are defined in writing (see **Quality Assurance Agreement Appendix)** Quality Assurance Agreements are required for Class 1 Suppliers. Class 2 Suppliers may have Quality Assurance Agreementor change notification (which ensures notification at encountering major or critical incidents), and Class 3 Suppliers do not require a Quality Assurance Agreement or change notification. Quality Assurance Agreement is generally standardized but is adapted in particular for each Supplier depending on the Products, Materials, or services supplied. Quality Assurance Agreement includes, but is not limited to, the following:

* Primary contacts,
* General regulations regarding the scope of the contract and the processing of orders,
* Obligation of the Supplier to not forward order or outsource work to third parties without the permission of NBE-Therapeutics,
* Right to Audit the Supplier,
* Obligation to inform, particularly regarding Audits or inspections by regulatory authorities,
* Compliance with the Specifications, SOPs, WIs, and testing instructions defined by NBE-Therapeutics,
* Assurance of preparation and archival of documents, specifically in the case of closure or acquisition of the Supplier
* Handling of Events, including quality defects and complaints, and
* Liability, scope, and termination.

Quality Assurance Agreements must be accepted and signed by both parties before initiating a service, shipping, or a formal transfer of technical data or methods. Quality Assurance Agreements are re-evaluated at re-qualification based on the Supplier’s risk classification and constitute a separate agreement next to the subsequent.

As soon as the Quality Assurance Agreement is signed by both parties and thereby legally binding, Quality Organization assigns the Supplier status of “qualified” on the Qualified Supplier List. In the case of previously qualified Suppliers, Quality Organization updates the Risk classification as necessary based on the provision of new Products, Materials, or services.

## Transfer of technical data (optional)

The responsible Line Manager collects all relevant data and necessary information in the area that the Supplier needs to fulfil the specialized tasks. In particular, this includes precise information on technology transfers, method transfers, work safety, and possible problems or risks in infrastructure, equipment, personnel, or subsequent Products/Materials, elated to the Product/Material or the task.

The responsible Line Manager assumes responsibility for the comprehensiveness of the technical transfer documentation. The Line Manager shall coordinate with Quality Organization to ensure the technical transfer documentation is complete, accurate, and by work described in the MPA and Quality Assurance Agreement.

The transfer of this data must be done promptly so that any resulting questions related to the documentation can be discussed before fulfilment of impacted orders.

## Requalification of the Supplier

The performance of the Supplier is continuously monitored by Quality Organization. The requalification of the Supplier is performed per the frequency defined by the Risk Class.

The requalification process assesses the following:

* Overall competence and ability to fulfill the contractually agreed requirements (e.g., order quantities),
* Current validity of the Quality Assurance Agreement and MPA,
* Audit results
* Results of regulatory authority inspections of the Supplier, if applicable,
* Event data history and associated correspondence (CAPAs, deviations, OOS results, detected trends, complaints, transport damage, other non-conformances, or discrepancies), Note: Events are stored in the Event database. Event information can be extracted per Supplier for Supplier requalification and Management Review.
* Ability to communicate effectively and responsiveness to NBE-Therapeutics queries,
* Adherence to schedule for order delivery dates and CAPAs (e.g., timelines for implementing corrective action)
* Adherence to schedule and the quality/completion of documents (e.g., raw data, certificates, and reports)

If the Supplier continues to comply with the above requirements, it remains a qualified Supplier and the Qualified Supplier List is updated with the date of requalification.

If the requalification assessment was not successful or if quality issues occur before the requalification process, Quality Organization contacts the Supplier to discuss the issues and possible corrective and preventive measures. Depending on the results of the requalification or other Events, Quality Organization may increase the Audit frequency for the Supplier or define other subsequent actions or controls.

Documentation of the requalification is documented in the Supplier’s file.

## Disqualification

If during Audits, requalification, or in ongoing monitoring of shipping or services, severe flaws are found (e.g., repeated complaints and recalls while failing to implement CAPAs an other Events) and the Supplier has not taken sufficient measures and regularly failed to deliver a satisfactory performance, Quality Organization and, the Line Manager may decide to disqualify the Supplier based on quality or business risks.

Suppose the Line Manager and Quality Organization decide to disqualify a Supplier. In that case, Quality Organization must document the disqualification status in the Supplier’s File (including the justification for disqualification), remove the Supplier from the Qualified Supplier List, and notify Purchasing to prevent future orders from the Supplier.

## Suppliers review

Quality Organization evaluates the Supplier data every year and creates a status update report for Management Review. The report includes, but is not limited to:

* initial Supplier qualifications,
* re-qualification and
* any Supplier Events that may impact the business.

## Supplier Documentation

Quality Organization maintains the Qualified Supplier List, ensuring Purchasing has access to the documentation to check Supplier status before placing orders. The Qualified Supplier List includes, at minimum, the following information:

* Name of qualified Suppliers,
* Risk Classification,
* Date of qualification, and
* Date of re-qualification (per risk classification).

In addition to the Supplier database, the following Supplier documents are maintained by NBE-Therapeutics:

|  |  |
| --- | --- |
| **Title / Type of Document** | **Owned / Maintained By** |
| Supplier database | Quality Organization |
| Supplier Self-Assessment and Associated qualification documents (e.g., copies of certifications) | Quality Organization |
| Technical Visit Results | Quality Organization |
| Audit Results | Quality Organization |
| Risk Assessment Results (including Risk Classification) | Quality Organization  Purchasing Manager  Line Manager |
| Master Purchase Agreement | Purchasing Manager and Line Manager |
| Non-Disclosure Agreement (NDA) | Purchasing Manager and Line Manager |
| Quality Assurance Agreement (QAA) | Quality Organization |
| Purchase Orders | Purchasing |
| Requalification Results | Quality Organization |
| Disqualification Results | Quality Organization |
| Supplier-related Events (Deviations, OOS, complaints, non-conformances, CAPAs, exceptions, etc.) | Quality Organization |

Contracts and applications necessary for the Supplier Qualification are registered as follows:

* NDA-YYYY-No.: NDA, dash, , the year (YYYY), dash, and a serial number in the format 000, e.g., NDA-2022-001 for the first non-disclosure agreement (NDA) registered.
* MPA-YYYY-No.: MPA, dash, , the year (YYYY), dash, and a serial number in the format 000, e.g., MPA-2022-001 for the first Master Purchase Agreement registered.
* QA-YYYY-No.: QA, dash, the year (YYYY), dash, and a serial number in the format 000, e.g., QA-2022-001 for the first Quality Assurance Agreement in 2022).

# Applicable documents

SOP-01 Documentation Management

SOP-05 Change Management

SOP-07 CAPA Management

SOP-08 Audits Management

SOP-09 Quality Risk Management

SOP-14 Material Management

# Appendices

The following appendices are integral part of this SOP:

Appendix Supplier Self Assessment Form

Appendix Supplier Evaluation Form

Appendix Qualified Supplier List Form

Appendix Quality Assurance Agreement Appendix

# Document revision history

|  |  |  |  |
| --- | --- | --- | --- |
| **Version** | **Valid from** | **Description of the revision** | **Reason for the revision** |
| 1 | See header | Document created | QMS implementation |