Quality and Supply Chain Transparency Guidelines for Life Science Applications

Work with a supplier that can help solve regulatory challenges in manufacturing



Manage Supply Chain Risk with a partner that understands

manufacturing and regulatory requirements

Global shifts in chemical markets and production centers over the past few decades have increased the complexity of today's supply chain. This trend has led to reduced knowledge and understanding of risk in the biopharmaceutical manufacturing process.

SAFC's Quality and Supply Chain Guidelines bring clarity to this complex process. Designed to meet our customers' evolving needs in understanding and managing risk, SAFC provides an appropriate level of service that works in accordance with the assigned quality level of a product and its recommendation for use. It is a part of our constant effort to provide customers with reliable services for their risk management needs.



Quality and Supply Chain Transparency Guidelines:

Bringing clarity to raw materials for life science applications

SAFC, a member of the Sigma-Aldrich family, is dedicated to solving manufacturing challenges by providing customers with tailored quality and regulatory support for product applications.

We classify the majority of the Sigma-Aldrich products under one of the four levels of our Enhanced Quality Program, from the non-regulated, non-GMP raw materials to highly-regulated GMP products.

Each level has associated quality support and documentation, along with recommended use and change notification parameters.

Standard and Premium levels provide helpful information for customers, such as product specifications and certificates of analysis easily available on the Sigma-Aldrich website. Products with either Standard or Premium quality levels include a comprehensive range of change notification parameters that may be relevant to multiple industrial or commercial specialties. Products with these levels of quality meet the needs of a market that demands innovation and a broad variety of chemicals, along with Just-In-Time delivery. However, the Standard and Premium quality levels are not recommended for regulated applications, such as biopharmaceutical manufacturing. We provide clear features of quality and documentation support linked to the quality levels, so our customers can make an informed decision on the quality profile appropriate for their application.

Products classified under **Elite** and **GMP** levels have been manufactured and tested to meet the requirements of the biopharmaceutical and pharmaceutical regulated manufacturing processes, as well as other applications requiring highly controlled raw materials. We provide quality documentation supporting our customers' regulatory requirements, as well as manufacturing site quality overview and certifications. The decision on which of these quality profiles is most appropriate is driven by customer need for controlled **(Elite)** or validated processes **(GMP)**.

Our Quality and Supply Chain Guidelines provide clear features to enable the selection of appropriate quality level for applications and provide an understanding of the implications of that decision.





Defining the Right Level of Quality Support

SAFC's Quality Guidelines can be used by customers to develop their own risk assessment for the products they use, and to assist in the process of choosing new raw materials.

These defined quality levels allow for comparison of quality support and documentation available for raw materials.

SAFC Quality Guidelines

Documentation Available

Attributes	Standard Quality Level	Premium Quality Level	Elite Quality Level	GMP/Compendia Quality Level
Product Use	Research, Industrial and Chemical Specialities	Research, Industrial and Chemical Specialities	Upstream and Downstream Biopharma Processing	API, BPE, IVD, Biopharma Applications
Raw Material Regulatory Requirements	Non-Regulated Applications	Non-Regulated Applications	Regulated Applications	Regulated Applications
Quality Systems Controls	ISO 9001	ISO 9001	ISO 9001 plus other Controlled Processes	ICH Q7, IPEC, 21 CFR, 13485
Sourcing Information	Proprietary	Discretionary Confidential Information Shared Under CDA	Confidential Information Shared Under CDA	Confidential Information Shared Under CDA
Analytical Methods	0	•	•	0
Certificate of Analysis	0	٥	٥	0
CCN	0	٥	0	0
Product Specification	0	٥	•	0
Certificate of Origin		•	•	0
Expiry or Retest Date		•	•	0
Vendor Assessment		•	•	0
Critical Control Parameter (CCP)			•	•
QA Batch Review			•	•
Lot Sample Retained			•	0
Vendor Management			٥	0
Validation				•

SAFC Quality Guidelines: Levels and Recommended Use

Standard Quality Level Details			
Product Use	Recommended for research use, non-registered manufacturing use, and non-regulated industrial applications, with limited change notification requirements.		
Features	 ISO 9001 Quality Management System - does not include GMP guidance Certificate of Analysis (CofA) and MSDS available Certificate of Origin (CofO) may be available Analytical Method may be available upon request Sourcing information remains proprietary 		
Change Notification*	Analytical release specifications and/or method, vendor (could be different from manufacturer), manufacturing site if produced by Sigma-Aldrich, packaging site, testing site, product deletion. Notification timeline: 2 weeks		

*Change notification is a service available at all Quality levels and must be requested by customer for individual products. Fees may apply.

SAFC Quality Guidelines: Levels and Recommended Use, continued

Premium Quality Level Details		
Product Use	Recommended for non-registered manufacturing use and non-regulated industrial applications, with limited change notification requirements.	
	 ISO 9001 Quality Management System - does not include GMP guidance Certificate of Analysis (CofA) and MSDS available Certificate of Origin (CofO) available 	
Features	 Analytical Method available upon request Expiry or Recommended Retest Date supplied Vendor Assessment 	
Change Notification*	Sourcing information disclosure at discretion of SAFC Analytical release specifications and/or method, vendor (could be different from manufacturer), manufacturing site if produced by Sigma-Aldrich, packaging site, testing site, product deletion, type of manufacture. Notification timeline: 4 weeks	

Elite Quality Level Details				
Product Use	Recommended for upstream and downstream processing, registered starting materials and raw materials (material can be in regulatory filing). This level does not support the use of the product as an API or Excipient.			
Features	 Quality Management System, including some elements of industry standards Controlled Manufacturing process, not validated Internally qualified analytical method. If compendial methods are used, they are validated by definition. 			
	 Certificate of Analysis (CofA) and MSDS available Certificate of Origin (CofO) available Expiry or Recommended Retest Date supplied – supported by Sigma-Aldrich data 			
	 Manufacturing and risk assessment. Residual solvents, melamine, and BSE TSE statements available. Retained sample Quality review of batch records 			
	 Manufactured by Sigma-Aldrich or by qualified supplier who commits to notification of changes and transparency Sourcing information disclosed under confidentiality agreement 			
Change Notification*	Analytical release specifications and/or method, manufacturing site, packaging site, testing site, type of manufacture, significant manufacturing process changes. Notification timeline: 12 weeks			

GMP Quality Level Details

Product Use	Recommended for upstream and downstream processing, registered starting materials and raw materials (material can be in regulatory filing). Some products at this level are suitable for use as API's or Excipients.	
Features	Quality Management System at GMP level	
	Validated and controlled manufacturing process	
	• Internally qualified analytical method. If compendial methods are used, they are validated by definition.	
	Certificate of Analysis (CofA) and MSDS available	
	Certificate of Origin (CofO) available	
	 Expiry or Recommended Retest Date supplied – supported by Sigma-Aldrich data 	
	 Manufacturing and risk assessment. Residual solvents, melamine, and BSE TSE statements available. Meets compendial requirements where indicated in name or Product ID. 	
	Retained sample	
	Quality review of batch records	
	Manufactured by Sigma-Aldrich or by qualified supplier who commits notification of changes and transparency	
	DMF's or Quality Dossiers may be available	
	Certificates of suitability may be available	
Change Notification*	Analytical release specifications and/or method, manufacturing site, packaging site, testing site, type of manufacture, significant manufacturing process changes, and primary packaging component or closure. Notification timeline: 12 weeks	

*Change notification is a service available at all Quality levels and may need to be requested by customer for individual products. Fees may apply.

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