

QUALITY ASSURANCE DEPARTMENT

FAILURE MODE EFFECT ANALYSIS FOR SAMPLING OF EXTERNAL PREPARATIONS

S. No.	Item / Function	Potential Failure Mode	Potential Effect of Failure	Potential Cause/ Mechanism of Failure	Current Control	Reference	control Measure		Recommended Actions (if any)	control		ol	RPN (S*O*D)		
			(Effect)				S	0	D	Risk Priority Number (S*O*D)		S	o	D	
1.	Raw material Sampling	Probability of use of Un-cleaned garments	Product Failure & mix-up chances	 Procedure is not available for Garments cleaning Garments cleaning are performed by untrained personnel. Garments Storage Cabinets are not provided for Storage of Garments 	 Cleaning Procedure is available. Cleaning is performed by trained personnel. Storage Cabinets are provided for storage of garments. 	SOP	4	1	3	12	NA	NA	NA	NA	NA
		Probability of mix up of material after Sampling	Contaminati on and Product failure	 Proper Status of Labeling is not done in each container of material. Material transfer procedure is not available. Proper storage condition not followed. Unskilled/Untrained person performing Sampling. Material transfer in unsafe manner. Unclean Tools used for Sampling. 	 All containers of materials properly identified by status label. SOP is available for Raw material sampling and transfer. Provision for controlled storage condition is available. Untrained/Unqualified personnel is not allowed in the area. SOP is available for sampling tools cleaning 	SOP Temperature mapping data	1	3	4	12	NA	NA	NA	NA	NA

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S. No.	Item / Function	Potential Failure Mode	Potential Effect of Failure	Potential Cause/ Mechanism of Failure	Current Control	Reference	control Measure		Recommended Actions (if any)	d Risk after control measure		1	RPN (S*O*D)		
			(Effect)				S	o	D	Risk Priority Number (S*O*D)		S	o	D	
	Raw material Sampling			 ➤ RLAF not clean properly and Pressure Differential not in Limit. ➤ Weighing Balances are not clean. 	➤ Line clearance procedure followed before start of sampling procedure.										
		Personnel Safety during Sampling	Contaminati on of raw material and Effect on Human Health	➤ Proper gowning procedure is not followed.	➤ Provision of Secondary Change Room with secondary gowning including Head gear, Body suit, and booties to avoid contamination from persons available.	SOP Safety manual	1	1	4	4	NA	NA	NA	NA	NA
				Safety devices are not available.	Safety devices are available i.e. PPE (personnel protective equipments), Gloves, mask, goggles, etc required safety devices are provided. First aid facility is provided in case of any miss										
				➤ Unskilled/untrained person performing Sampling.	happening. > Untrained person is not allowed to work in sampling area.										
				Activity is performed by without supervision of senior person.	List of Authorized personnel is displayed in all area.										

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S. No.	Item / Function	Potential Failure Mode	Potential Effect of Failure	Potential Cause/ Mechanism of Failure	Current Control	Reference	Risk with Current control Measure		control Measure Actions (if any)		Recommended Actions (if any)	Risk after control measure		1	RPN (S*O*D)
			(Effect)				S	o	D	Risk Priority Number (S*O*D)		S	o	D	
	Raw material Sampling				➤ All activity is performed in presence of senior/experienced chemist.										
		Contaminat ion & Cross Contaminat ion		 In adequate cleaning Area not qualified. HVAC is not qualified. Procedure for area cleaning is not available & followed. Procedure is not available for cleaning schedule of area. Pressure differential of area is not maintained & monitored in regular intervals. Untrained / Unqualified personnel are allowed in the area. 	 Proper cleaning & sanitization procedure are followed. HVAC & area are previously qualified. Validation cleaning procedure is available, followed & documented. Procedure is available & followed for cleaning schedule of area Pressure differential of the area is maintained, monitored at defined frequency. Untrained/Unqualified personnel is not allowed in the area. All activity is performed by trained personnel. 	SOP	4	1	2	8	NA	NA	NA	NA	NA

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			(Effect)				S	o	D	Risk Priority Number (S*O*D)		S	O	D	
	Raw material Sampling			 ➤ Cleaning is performed by untrained personnel. ➤ Dedicated area is not provided for Storage of Cleaned sampling tools. ➤ Separate Washing Area is not provided. ➤ Dedicated AHUs is not provided for all the area. ➤ Procedure is not available for AHU cleaning & filter cleaning ➤ Gowning procedure is not available & not followed. ➤ Unidirectional men material movement / Flow are not provided. ➤ Pictorial for gowning procedure are not displayed in respective area. 	 Dedicated area is provided for Storage of Cleaned Sampling tools. Separate Washing Area is provided. Dedicated AHUs is provided for all the store area. Procedure is available for AHU cleaning & filter cleaning Gowning procedure is available & followed. Unidirectional Men Material Movement / Flow are provided. Pictorial for gowning procedure are displayed in respective area. Procedure is available for Line clearance of sampling area. 										



Note: Action shall be taken if Risk Priority Number is more than 64.

PHARMA DEVILS

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			(Effect)				S	o	D	Risk Priority Number (S*O*D)		S	O	D	
				➤ Procedure is not available for Line clearance of sampling area.	➤ Procedure is available for cleaning of AHU & equipment filter										
				➤ Procedure is not available for cleaning of AHU & equipment filter	> Only single product sampled at a time.										
				Two different products sampled at a time.											

Where: S=Severity; O=Occurrence Probability; D=Detection	
Remarks (if any):	

 Quality Risk Management Team
 Reviewed By
 Approved By

 Name
 Department
 Sign & Date
 Head Operations
 Head QA

 Sign & Date
 Sign & Date



Name of Facility / Equipment / Utility / System / Activity / Procedure / Unit Operation:

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QUALITY RISK ASSESSEMENT AND MITIGATION SUMMARY REPORT

Sampling (External Preparation)

S.No.	Recommended Action	Responsible Person	Target Date of Completion
	greed actions completed, Not Completed. ommendations Not completed, to be tracked through CAPA System)		
Verified By QA Sign & Date		Approved l Head QA Sign & Da	