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# Prequalification Team Inspection Services WHO PUBLIC INSPECTION REPORT (WHOPIR)

# Desk Assessment of In Vitro Diagnostic Product Manufacturer

Part 1	General information		
Manufacturers info	ormation		
Name and address	Cepheid – Fremont		
of manufacturer	904 Caribbean Drive		
	Sunnyvale CA California 94089		
	United States of America		
Deals agains and de			
Desk assessment de	etalls		
Dates of inspection	To september 2024		
Type of inspection	Initial		
Products covered	- PQDx 10295-070-00 Xpert MTB/RIF Ultra		
by this desk	- PQDx 12361-070-00 Xpert Xpress CoV-2 plus		
assessment			
List of documents	Re_[EXT] Clarification of Scope for Cepheid Fremont Desk Assessment		
submitted	BSI Audit Report Jan 2023 Cepheid-Sunnyvale		
	BSI Audit Report Sept 2023 Cepheid-Sunnyvale		
	Cepheid EBLC Fremont (EMS Data Last 2 Months Aisle 32 Upper and		
	Lower Rack Levels)		
	Cepheid EBLC Fremont (EMS Data Last 2 months Cold Room 07)		
	Cepheid EBLC Fremont (EMS Data Last 2 months INC Room 21)		
	Contact Information for Responsible Person.		
	Attachment 1 Post Market Data Review Template Rev. Y		
	Global Safety Risk Management SOP Rev. Y		
	Global SOP for Nonconforming Process		
	Global Supplier Audits Procedure final		
	Planned Deviation Rev Y		
	Supplier Qualification and Management Procedure (9)		
	SCAR Procedure		
	Nonconformance eQMS Work Instruction		
	Global Inspection & Testing SOP (2) (1)		
	Global Incoming Inspection SOP Rev A (1)		
	EBLC Fremont Facility Qualification Report for Warehouse		
	EBLC Fremont Facility Qualification Report for INC (Room 21)		
	EBLC Fremont Facility Qualification Report for Cold Room 07		
	SCAR EQMS Work Instructions Procedure Rev A		
	ePDR Work Instructions Rev B (2)		
	EBLC Fremont Operations Organogram		
	EBLC Fremont Quality Organogram		
	Fremont EBLC Facilities Map FL 1 & 2		
	List of Audit NCs-Sunnyvale (Fremont)		

Cepheid - Fremont, Sunnyvale, USA



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	LRQA Audit Report A	ug-Nov 2021 Sunnyvale			
	MD 774674_Issued 20	24-01-15			
	MDSAP 774673_Issued 2024-07-04				
	No changes to product and processes related to Cepheid Sunnyvale				
	Cepheid_Global_Quali	Cepheid_Global_Quality_Manual			
	Cepheid_Sunnyvale_D	ocument_Matrix			
	Global Risk_Managem	lent			
	Purchasing Controls Policy				
	Global Inspection, Testing and Acceptance Policy				
	Global Policy for the Control of Nonconforming Product				
	Quality System Documents - Sunnyvale				
Any documents	None.				
missing?					
General	The Cepheid Fremont site was added by Cepheid AB as a warehousing				
information about	site for the products in	the prequalification portfolio. This site had never			
the company and	been inspected by WH	O PQT but has been inspected and certified by			
site	MDSAP. As such, the MDSAP inspection reports were reviewed to				
	inform the prequalification of the Fremont site. The assessment focused				
	on the purchasing and warehousing activities, and the associated risks.				
Part 2	Summary of inspection	on evidence considered (from most recent to last)			
bsi audit report	Dates of inspection:	26-29 September 2023			
	Type of inspection:	Hybrid Surveillance Audit			
	Products covered:	Not listed			
bsi audit report	Dates of inspection:	17-20 January 2023			
	Type of inspection:	On-site Surveillance Audit			
	Products covered:	Not listed			
Abbreviations	Meaning				
CoA	Certificate of analysis				
IQ	Installation qualification	1			
IVD	In vitro device				
MR	Management Review				
MSDS	Material safety data she	eet			
NC	Non-conformities				
PPE	Personal Protective Equipment				
OOS	Out-of-specifications test result				
OQ	Operational qualification				
PM	Preventive maintenance				
PQ	PQ Performance qualification				
PW	PW Purified water				
QA	Quality assurance				
QC	Quality control				
QMS	Quality management system				
QRM	Quality risk management				
RA	Risk assessment				
RCA	Root cause analysis				
SOP	Standard operating pro	cedure			
Cepheid - Fremont. Sunnvvd	ule. USA	10/09/2024			

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#### Part 3 Brief summary of the findings and comments

### 1. Quality Manual:

The manufacturer had implemented a quality manual that included the scope of the QMS, referred to documented procedures, and included a description of the interaction between processes. Documentation structure was outlined. The manufacturer provided organograms for the operations and for the quality departments of the Fremont site. From those, it could be established that operations were independent from quality.

The nonconformity identified was successfully resolved through a CAPA process.

### 2. List of current quality management procedures:

The manufacturer provided a list of 143 quality systems documents relevant to the Sunnyvale campus which included the Fremont warehouse. The list included the latest revision of each document and its effective date.

### 3. Standard operating procedures for:

### i. Control of nonconforming goods/processes:

The manufacturer provided separate documentation for planned or unplanned nonconformities (NC).

- Planned NC were managed through a global policy for the control of NC product that appeared to meet the requirements of the standard. The process for the request and approval of a temporary change to a documented requirement was documented and supported by detailed instructions.

- Unplanned NC were managed through a global policy and global risk management documents. These documents appeared to meet the requirements of the standard. The manufacturer had implemented a global procedure for nonconforming process that outlined the three main stages of the control of nonconforming process/product: identification, evaluation, and documentation of the NC.

#### ii. Risk management:

The manufacturer provided SOPs and templates describing the process used to ensure that risks to patients, users, customer property and the environment from the use of Cepheid medical device products were acceptable. A semi-quantitative approach was used to determine the Safety Risk Profile. This applied to devices throughout their lifecycle.

The nonconformity identified was successfully resolved through a CAPA process.

#### iii. Supplier evaluation and control:

The manufacturer provided a global purchasing controls policy that defined the requirements to ensure that purchased materials and services conformed to specified requirements. It applied to the procurement of components, finished goods and services that impact product quality and to any Cepheid organization or site that procured these items. This excluded transactions between Cepheid sites that were under the same QMS. This document appeared to meet the requirements of the standard.

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20, AVENUE APPIA – CH-1211 GENEVA 27 – SWITZERLAND – TEL CENTRAL +41 22 791 2111 – FAX CENTRAL +41 22 791 3111 – <u>www.who.int</u> The policy was further supported by a supplier qualification and management procedure that defined the process for identifying, selecting, qualifying, and managing internal and external suppliers to ensure that all purchased product/service conformed to Cepheid's specified requirements for production applications for all Cepheid locations.

The supplier review board would classify each supplier based on the criticality of the product/service that it provided into 4 categories. This guided the minimum requirements for each supplier in terms of supplier survey, quality agreement, audit.

A procedure for supplier audits was documented. It included the possibility of for-cause audits, even for suppliers in the lower risk categories. This procedure detailed the classification of audit findings and the corresponding requirements for escalation based on overall audit risk rating. This could include supplier corrective action (SCAR). The SCAR process and its documentation were documented.

# iv. Verification of purchased product:

This process was supported by a global policy, as well as by global inspection and testing procedures. The extent of acceptance activities for incoming purchased components was based on supplier evaluation results and risk associated with the components to the final device. Incoming inspection included a sampling plan based on statistics. The need to identify and segregate materials undergoing incoming testing was documented.

# 4. Audit report of the most recent full regulatory audit and all subsequent surveillance audits:

The last two MDSAP audit reports performed by bsi were provided and reviewed. The manufacturer also provided the report of an audit performed by LRQA in August-November 2021. Given this report was 3 years old, it was not considered as part of this desk assessment.

# 5. Valid quality management system certificate(s) and scope of certification:

The manufacturer provided MDSAP certificate 774673 delivered on the 30<sup>th</sup> of August 2022 by bsi. It included the Fremont warehouse with the scope of distribution of IVDs and analysers. It was valid until the 18 December 2024. The authenticity of the certificate could be verified on the bsi website. The manufacturer also provided certificate MD 774674 delivered on the 2<sup>nd</sup> of August 2022 by bsi, it included the Fremont warehouse with the scope of distribution of IVDs and analysers. It was valid until the 18 December 2024. The authenticity of the certificate could be verified on the bsi website.

# 6. Environmental controls:

The inspection team assessed the environmental control of the incoming area, the warehouse, and the cold room.

The manufacturer indicated that no production or storage occurred in the incoming area and that temperature mapping was not required. This area had been qualified and its temperature was within 18-25 °C during a 72-hour temperature monitoring. This was verified on temperature data recorded over the summer months of 2024 that indicated that temperature remained within the 18-25 °C range.

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The qualification report of the warehouse was provided. It included a temperature uniformity study that indicated that the temperature recorded remained within the 2-28°C specified range. This was verified on temperature data recorded over the summer months of 2024 that indicated that temperature remained within the 2-28°C range.

The qualification report of the cold room was provided. It included a temperature uniformity study that indicated that the temperature recorded remained between  $\sim 3.8$  to  $\sim 6.6$  °C (acceptance range 2-8 °C). This was verified on temperature data recorded from 4 July 2024 to 4 September 2024 was provided. It indicated that the temperature recorded over the summer months of 2024 that indicated that temperature remained within the 2-8 °C range.

The nonconformities identified were successfully resolved through a CAPA process.

### Part 4 Conclusion – Inspection outcome

Based on the MDSAP evidence received and reviewed, it is considered that a desk assessment is acceptable in lieu of a WHO onsite inspection. The site *Cepheid Fremont located at 904 Caribbean Drive, Sunnyvale, CA, California 94089, United States of America* is considered to be operating at an acceptable level of compliance with ISO 13485: 2016 and WHO *Information for Manufacturers on Prequalification Inspection Procedures for the Sites of Manufacture of Diagnostics* (PQDx\_014).

This WHOPIR will remain valid until the 29<sup>th</sup> of September 2026, provided that the outcome of any inspection conducted during this period is positive.

### Part 5 List of Standards and Guidelines referenced in the inspection report

- 1. WHO Information for Manufacturers on Prequalification Inspection Procedures for the Sites of Manufacture of Diagnostics (PQDx\_014).
- 2. ISO 13485:2016 Medical devices Quality management systems Requirements for regulatory purposes.
- 3. WHO Post-market surveillance of in vitro diagnostics 2020 (ISBN 978 92 4 1001531 9)
- 4. Medical devices Application of risk management to medical devices ISO14971:2019
- 5. GHTF/SG3/N19:2012 "Quality management system Medical devices Nonconformity Grading System for Regulatory Purposes and Information Exchange"
- 6. GHTF/SG4/(99)28 'Guidelines for Regulatory Auditing of Quality Systems of Medical Device Manufacturers Part 1: General Requirements
- 7. GHTF/SG4/N30R20:2006 'Guidelines for Regulatory Auditing of Quality Systems of Medical Device Manufacturers Part 2: Regulatory Auditing Strategy

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8. GHTF/SG4(pd1)/N33R16:2007 'Guidelines for Regulatory Auditing of Quality Systems of Medical Device Manufacturers - Part 3: Regulatory Audit Reports ISO 13485:2016, Commitments to WHO PQ.