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Prequalification Unit Inspection services WHO PUBLIC INSPECTION REPORT

Desk Assessment of Active Pharmaceutical Ingredient (API) Manufacturer

Part 1	General information			
Company information	n			
Name of	Anuh Pharma Limited			
Manufacturer				
Corporate address	Anuh Pharma Ltd			
of manufacturer	3-A Shivsagar Estate, Dr. Annie Besant roa	ad. Worli, Mumbai-400018, India		
	Tel. No. :91-22-6622 7575			
Inspected site				
Name & address of	Anuh Pharma Limited			
manufacturing site	E17/3, 17/4 & E-18, MIDC, Boisar, Tarapur, Palghar District, Maharashtra, 401 506,			
-	India.			
	D-U-N-S: 915041156			
	GPS coordinates			
	Latitude: 19°48'6". N			
	Longitude: 72°44'3".E			
Synthetic	Buildings:			
Unit/Block/Workshop	E-17/3, E-17/4, APL – 1 & APL – 2 & E - 18	}		
-	Blocks: NP - 1, AB - 3, AJM - 01, AJM - 02, INT - 2A			
Manufacturing	Forms 25 & 28, issued by Food & Drugs Administration (Maharashtra) state 25-			
license number	KD/1194 & 28-KD/990, valid till 31/12/2022			
Desk assessment deta	ils			
Start and end dates of	14-18 June 2021			
review				
APIs covered by	Active Pharmaceutical Ingredient	Prequalification status		
this desk assessment	Pyrazinamide	Prequalified		
	Sulfadoxine	Prequalified		
	Pyrimethamine	Prequalified		
	Isoniazid	Under Assessment		
List of documents	1. SMF and Annexures	· · · · · · · · · · · · · · · · · · ·		
submitted	2. US FDA inspection report			
	3. List of regulatory authorities' inspections in last 5 years			
4. Manufacturing license Forms 25 & 28, issued by Food & Drugs Administra				
	(Maharashtra) state 25-KD/1194 & 28-K			
	 GMP certificate, issued by Food & Drugs Administration (Maharashtra) state, valid till 07/08/2021 			
	6. List of all products manufactured at the site			
	7. Declaration: recalls			
	8. Declaration: self-inspection			
	9. Declaration: shared equipment			
	10. Declaration: recovered solvents			
	10. Declaration: recovered solvents			



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	12. Declaration: out-of-stock		
	13. Declaration: upcoming inspections		
	14. Manufacturing process for the concerned product covered by the inspection of		
	SRA		
	15. PQRs:		
	a. Declaration of CpK & Graphical Representation		
	b. Isoniazid and Annexes April 2020 – March 2021		
	c. Pyrazinamide and Annexes April 2020 – March 2021		
	d. Pyrimethamine and Annexes April 2020 – March 2021"		
	e. Sulfadoxine and Annexes April 2020 – March 2021		
	16. BMR&BPR& analytical raw data:a. Isoniazid manufacturing/blending/packaging, analytical raw data		
	 a. Isoniazid manufacturing/blending/packaging, analytical raw data b. Sulfadoxine intermediate manufacturing/blending/packaging/analytical 		
	raw data		
	c. Sulfadoxine manufacturing/blending/packaging, analytical raw data		
	d. Pyrazinamide manufacturing/blending/packaging, analytical raw data		
	e. Pyrimethamine manufacturing/blending/packaging, analytical raw data		
	17. Master Production Control records:		
	a. Isoniazid		
	b. Sulfadoxine intermediate		
	c. Sulfadoxine		
	d. Pyrimethamine		
	e. Pyrazinamide		
Any documents missing?	N/A		
Part 2	Summary of SRA/NRA inspection evidence considered and comments		
FDA US	Dates of inspection:	16 – 20 September 2019	
	Type of inspection:	Initial GMP inspection	
	Block/Unit/Workshop:	NP-2/NP-3NP-2/NP-4, AB-4	
	APIs covered:	Erythromycin USP	
		Erythromycin Ethyl Succinate USP	
		Azithromycin USP (Dihydrate)	
		Chloramphenicol Palmitate USP	
Part 3	Summary of the last WHO inspection		
D_{1} 1 1 1			
Date and conclusion of most recent		ection was carried out 26 – 28 November 2018.	
of most recent	Last joint WHO & EDQM inspe	ection was carried out 26 – 28 November 2018.	
	Last joint WHO & EDQM inspe CAPAs were submitted and asse	ection was carried out 26 – 28 November 2018. Essed by the PQT: Inspection Team and EDQM and	
of most recent	Last joint WHO & EDQM inspe CAPAs were submitted and asse the inspection, following the rev	ection was carried out 26 – 28 November 2018. essed by the PQT: Inspection Team and EDQM and riew of the CAPA, was closed 2 August 2019 as	
of most recent	Last joint WHO & EDQM inspe CAPAs were submitted and asse	extion was carried out 26 – 28 November 2018. Extension was carried out 26 – 28 November 2018. Extension Team and EDQM and riew of the CAPA, was closed 2 August 2019 as GMP published by WHO.	
of most recent WHO inspection	Last joint WHO & EDQM inspection CAPAs were submitted and asset the inspection, following the rev compliant with the standards of	extion was carried out 26 – 28 November 2018. Extension was carried out 26 – 28 November 2018. Extension Team and EDQM and riew of the CAPA, was closed 2 August 2019 as GMP published by WHO.	
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of most recent WHO inspection Brief summary of manufacturing activities General	Last joint WHO & EDQM inspective CAPAs were submitted and asset the inspection, following the rev compliant with the standards of Manufacture and distribution of Anuh Pharma Limited is a manufacture	ection was carried out 26 – 28 November 2018. essed by the PQT: Inspection Team and EDQM and eiew of the CAPA, was closed 2 August 2019 as GMP published by WHO. the APIs	
of most recent WHO inspection Brief summary of manufacturing activities General information	Last joint WHO & EDQM inspection CAPAs were submitted and asset the inspection, following the revision of Manufacture and distribution of Manufacture and distribution of Anuh Pharma Limited is a manu 1989. Anuh Pharma Ltd is Publi	ection was carried out 26 – 28 November 2018. essed by the PQT: Inspection Team and EDQM and iew of the CAPA, was closed 2 August 2019 as GMP published by WHO. the APIs	
of most recent WHO inspection Brief summary of manufacturing activities General	Last joint WHO & EDQM inspective CAPAs were submitted and asset the inspection, following the rev compliant with the standards of Manufacture and distribution of Anuh Pharma Limited is a manufacture	ection was carried out 26 – 28 November 2018. essed by the PQT: Inspection Team and EDQM and iew of the CAPA, was closed 2 August 2019 as GMP published by WHO. the APIs	



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and manufacturing site as per SMF-001- 26	The manufacturing site is developed on a plot provided by Maharashtra Industrial Development Corporation (MIDC) and is situated in Tarapur Industrial Area, Boisar, there are several small to medium scale chemical, pharmaceutical, engineering & textile companies in the industrial area.
	The manufacturing plant is situated at Plot No. E-17/3, 17/4 & E-18 Tarapur Industrial Area, M.1.0.C., Boisar, Palghar 401 506, Maharashtra, India. The Plot area of E17/3, 17/4 3600 Sq. Meter and for E18 7800 Sq. Meter. It is about 125 km from Mumbai. The site is easily accessible by road and rail.
	The site consists of 2 plots: 1. E-17/3 and E-17/4 2. E-18
	E-17/3 and E-17/4 consists of 2 buildings: 1. APL – 1 2. APL – 2
	 APL – 1 building consists of: AB – 3 Mfg. Block AB – 4 Mfg. Block AJM – 1 Block AJM – 2 Block Blending and Packing Room Quality Control Lab Microbiology Lab
	 APL - 2 building consists of following: NP - 1 Mfg. Block NP - 2 Mfg. Block NP - 3 Mfg. Block NP - 4 Mfg. Block
	E-18 building consists of • API-I • API-II • Intermediate (INT - 2A)
	Each of the above mfg. blocks have independent Air Handling Units, Synthesis Area, Powder Processing Area and Packing Area.
	Administration Building Intermediate Warehouse Finished Product Warehouse Effluent Treatment Plant Boiler House
	The site carries out their activities under a license of the FDA if Maharashtra State (India), manufacturing license, it also holds a written confirmation issued by CDSCO



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	for several APIs exported to EU.
Focus of the last WHO&EDQM inspection	 Erythromycin Ethylsuccinate Erythromycin (base) Pyrazinamide Ambroxol HCl
	 Products under WHO prequalification: Sulfadoxine Pyrimethamine Pyrazinamide
Areas inspected	 Main aspects of Quality Assurance Personnel Manufacturing areas ✓ APL-1 block ✓ APL-2 block Storage facilities Utilities Quality Control Laboratories Validation Qualification CEP dossier verification WHO PQ Dossier verification Supplier qualification Out-sourced activities
Out of some and	GDP activities APL-1 block:
Out of scope and restrictions (last	Workshop AB-4
WHO&EDQM inspection)	 APL-2 block: Workshops NP-3, NP-4 R&D activities Availability of Chemical Reference Standards for APIs & related substances
WHO APIs covered	 Availability of current version of European Pharmacopoeia Sulfadoxine
by the last WHO inspection	PyrimethaminePyrazinamide
Additional products to be covered by this desk assessment:	• Isoniazid
Abbreviations	Meaning
BMR	Batch manufacturing record
BPR	Batch production record
CAPA	Corrective and preventive action
CC	Change control
GMP	Good manufacturing practices
NC	Non conformity
NRA	National regulatory agency
PQR	Product quality review
PQS	Pharmaceutical quality system

Anuh Pharma Limited, Tarapur, India -Desk review -API



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QA	Quality assurance	
QC	Quality control	
QCL	Quality control laboratory	
QMS	Quality management system	
QRM	Quality risk management	
RA	Risk assessment	
RCA	Root cause analysis	
SOP	Standard operating procedure	

Part 4 Summary of the assessment of supporting documentation

a) Manufacturing authorization and GMP certificate granted by the local authority:

Manufacturing license Forms 25 & 28, issued by Food & Drugs Administration (Maharashtra) state 25-KD/1194 & 28-KD/990, valid till 31/12/2022 GMP certificate 6094875, issued by Food & Drugs Administration (Maharashtra) state, valid till

GMP certificate 6094875, issued by Food & Drugs Administration (Maharashtra) state, valid till 07/08/2021

b) Site master file (SMF):

SMF submitted and reviewed. SMF written according to the WHO TRS No. 961, Annex 14

c) List of all the APIs or other products (intermediates, dosage forms) manufactured on-site:

API	Туре
Erythromycin	Antibacterial
Erythromycin Stearate	
Erythromycin Estolate	
Erythromycin Ethyl Succinate	
Erythromycin Propionate	
Erythromycin 11, 12 carbonate	
Erythromycin Phosphate	
Azithromycin	
Chloramphenicol	
Chloramphenicol Palmitate	
Ofloxacin	
Moxifloxacin Hydrochloride	
Pyrazinamide	Anti-tuberculosis
Isoniazid	
Sulfadoxine	Antimalarial
Pyrimethamine	
Losartan Potassium	Anti-hypertensive
Telmisartan	
Ambroxol Hydrochloride	Mucolytic agent
Atorvastatin calcium	Anti-hyperlipidemic
Gliclazide	Antidiabetic
Fexofenadine Hydrochloride	Anti-histamine
Aripiprazole	Atypical Antipsychotic
Favipiravir	Anti-viral



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d) List of all regulatory inspections performed in the last 3 years:

Regulatory Authority	Dates of inspection	Inspected APIs/ buildings	
EDQM/ANSM	10 th to 12 th February 2016	Erythromycin Ethyl succinate NP – 2	
EDQM/ANSM/ WHO PQ	14 th to 16 th September 2016	Erythromyicn Erythromyicn Ethyl succinate Pyrazinamide Sulphadoxine NP – 2 NP – 1 NP- 1 AB – 3	
CDSCO India	22 nd to 23 rd December 2016	Erythromycin Stearate Erythromycin Estolate Sulfadoxine Chloramphenicol Palmitate Azithromycin Erythromycin Propionate Pyrazinamide Erythromycin Erythromycin Ethyl Succinate Chloramphenicol All Workshops	
CDSCO India	28 th Aug. to 29 th Aug. 2017	Chloramphenicol Palmitate Ambroxol Hydrochloride BP/EP Sulfadoxine Pyrazinamide Erythromycin Stearate Erythromycin Estolate Erythromycin Ethyl Succinate All Workshops	
FDA (Thane- MH)	14 th November2018	All Workshops	
EDQM & WHO Joint inspection	26 th to 28 th November 2018	Erythromycin Erythromycin Ethyl Succinate Pyrazinamide Pyrimethamine Ambroxol HCL NP-2 NP-1 AB-3	
Maharashtra FDA India	18 th July 2019	All APIS/Workshops	
USFDA, USA	16 th to 20 th September 2019	Erythromycin Erythromycin Ethyl succinate Chloramphenicol Palmitate USP Azithromycin NP-2/NP-3NP-2/NP-4 AB-4 NP-4	
CDSCO India	23 rd to 24 th January 2020	Erythromyicn Stéarate Erythromyicn Estolate	



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Regulatory Authority	Dates of inspection	Inspected APIs/
		buildings
		Sulfadoxine Chloramphénicol
		Palmitate
		Chloramphenicol Azithromyicn
		Erythromycin Propionate
		Pyrazinamide
		Eythromycin
		Erythromycin Ethyl succinate
		Ambroxol Hydrochloride
		All workshops
CDSCO & FDA India	09^{th} to 10^{th} December 2020	Erythromyicn Stéarate
		BP/EP/USP
		Erythromyicn Estolate
		BP/EP/USP
		Sulfadoxine BP Chloramphénicol
		PalmitateBP/EP/USP
		Chloramphenicol BP/EP/USP
		Azithromyicn BP/EP/USP
		Erythromycin Propionate FP
		Pyrazinamide BP/EP/USP
		Eythromycin BP/EP/USP
		Erythromycin Ethyl succinate
		BP/EP/USP
		Ambroxol Hydrochloride BP/EP

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e) Most recent product quality reviews (PQR)s of the concerned WHO APIs: Submitted and checked:

a) Isoniazid and Annexes April 2020 - March 2021 batch manufactured

Submitted and reviewed:

- a. Pyrazinamide and Annexes April 2020 March 2021
- b. Pyrimethamine and Annexes April 2020 March 2021
- c. Sulfadoxine and Annexes April 2020 March 2021

f) Batch manufacturing and packaging records, including the analytical part, for the most recently released batch of relevant APIs:

Submitted and reviewed:

- a. Isoniazid manufacturing/blending/packaging, analytical raw data
- b. Sulfadoxine intermediate manufacturing/blending/packaging/analytical raw data
- c. Sulfadoxine manufacturing/blending/packaging, analytical raw data
- d. Pyrazinamide manufacturing/blending/packaging, analytical raw data
- e. Pyrimethamine manufacturing/blending/packaging, analytical raw data
- **g)** Master batch manufacturing and packaging records of the APIs of interest: Submitted and checked:
 - Submitted and che
 - a. Isoniazid
 - b. Sulfadoxine intermediate



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- c. Sulfadoxine
- d. Pyrimethamine
- e. Pyrazinamide
- h) Recalls in the past three years related to APIs with quality defects: Declaration submitted: no recalls in the past three years related to APIs with quality defects
- i) Confirmation by the senior quality assurance representative that a full self-inspection or external audit dedicated to the APIs has been performed and all matters dealt with: Declaration submitted: a full self-inspection or external audit dedicated to the APIs has been performed and all matters dealt with
- j) Copy of any warning letter, or equivalent regulatory action, issued by any authority for their market, to which the site provides or has applied to provide the APIs: Declaration submitted: warning letter, or equivalent regulatory action, issued by any authority
- k) Out-of-stock situations: Declaration submitted: no out-of-stock situation

I) Additional documents submitted:

- a. Declaration: shared equipment
- b. Declaration: recovered solvents
- c. Declaration: upcoming inspections
- d. Manufacturing process for the concerned product covered by the inspection of SRA

Part 5 Conclusion – Desk assessment outcome

Based on the previous WHO inspections and on the GMP evidence received and reviewed, it is considered that a desk assessment is acceptable in lieu of a WHO onsite inspection. The site *Anuh Pharma Limited*

- Buildings: E-17/3, E-17/4, APL-1 & APL-2 & E-18.
- Blocks: NP-1, AB-3, AJM-01, AJM-02, INT-2A.

located at *E17/3*, *17/4*, *E-18*, *MIDC*, *Boisar*, *Tarapur*, *Palghar District*, *Maharashtra*, *401 506*, *India* is considered to be operating at an acceptable level of compliance with WHO GMP guidelines for APIs.

This will remain valid for 3 years, provided that the outcome of any inspection conducted during this period is positive.

Part 6 List of guidelines referenced in this inspection report

- WHO good manufacturing practices for active pharmaceutical ingredients. WHO Expert Committee on Specifications for Pharmaceutical Preparations. Forty-fourth Report. Geneva, World Health Organization, 2010 (WHO Technical Report Series, No. 957), Annex 2. Short name: WHO TRS No. 957, Annex 2 http://www.who.int/medicines/publications/44threport/en/
- WHO good manufacturing practices for pharmaceutical products: main principles. WHO Expert Committee on Specifications for Pharmaceutical Preparations. Forty-eight Report Geneva, World Health Organization, 2014 (WHO Technical Report Series, No. 986), Annex 2. Short name: WHO TRS No. 986, Annex 2 http://www.who.int/medicines/areas/quality_safety/quality_assurance/expert_committee/trs_986/en/



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- WHO guidelines for sampling of pharmaceutical products and related materials. WHO Expert Committee on Specifications for Pharmaceutical Preparations. Thirty-ninth Report. Geneva, World Health Organization, 2005 (WHO Technical Report Series, No. 929), Annex 4.
 Short name: WHO TRS No. 929, Annex 4 http://whqlibdoc.who.int/trs/WHO TRS 929 eng.pdf?ua=1
- Supplementary guidelines on good manufacturing practices: validation. WHO Expert Committee on Specifications for Pharmaceutical Preparations. Fortieth Report. Geneva, World Health Organization, 2006 (WHO Technical Report Series, No. 937), Annex 4.
 Short name: WHO TRS No. 937, Annex 4 http://whqlibdoc.who.int/trs/WHO TRS 937 eng.pdf?ua=1
- General guidelines for the establishment maintenance and distribution of chemical reference substances. WHO Expert Committee on Specifications for Pharmaceutical Preparations. Forty-First Report Geneva, World Health Organization 2007 (WHO Technical Report Series, No.943) Annex 3. Short name: WHO TRS No. 943, Annex 3

http://whqlibdoc.who.int/trs/WHO_TRS_943_eng.pdf?ua=1

- WHO Good Practices for Pharmaceutical Quality Control Laboratories. WHO Expert Committee on Specifications for Pharmaceutical Preparations. Forty-fourth Report. Geneva, World Health Organization, 2010 (WHO Technical Report Series, No. 957, Annex 1. Short name: WHO TRS No. 957, Annex 1 http://www.who.int/medicines/publications/44threport/en/
- WHO Good Practices for Pharmaceutical Products Containing Hazardous Substances. WHO Expert Committee on Specifications for Pharmaceutical Preparations. Forty-fourth Report. Geneva, World Health Organization, 2010 (WHO Technical Report Series, No. 957), Annex 3.
 Short name: WHO TRS No. 957, Annex 3 http://www.who.int/medicines/publications/44threport/en/
- WHO good manufacturing practices for sterile pharmaceutical products. WHO Expert Committee on Specifications for Pharmaceutical Preparations. Forty-Fifth Report Geneva, World Health Organization, 2011 (WHO Technical Report Series, No. 961), Annex 6.
 Short name: WHO TRS No. 961, Annex 6 http://whqlibdoc.who.int/trs/WHO_TRS_961_eng.pdf?ua=1
- WHO guidelines on transfer of technology in pharmaceutical manufacturing WHO Expert Committee on Specifications for Pharmaceutical Preparations. Forty-Fifth Report Geneva, World Health Organization, 2011 (WHO Technical Report Series, No. 961), Annex 7.
 Short name: WHO TRS No. 961, Annex 7 http://whqlibdoc.who.int/trs/WHO_TRS_961_eng.pdf?ua=1
- Model guidance for the storage and transport of time-and temperature-sensitive pharmaceutical products. WHO Expert Committee on Specifications for Pharmaceutical Preparations. Forty-Fifth Report Geneva, World Health Organization, 2011 (WHO Technical Report Series, No. 961), Annex 9. Short name: WHO TRS No. 961, Annex 9

http://whqlibdoc.who.int/trs/WHO_TRS_961_eng.pdf?ua=1



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- 11. WHO good practices for pharmaceutical microbiology laboratories. WHO Expert Committee on Specifications for Pharmaceutical Preparations. Forty-Fifth Report Geneva, World Health Organization, 2011 (WHO Technical Report Series, No. 961), Annex 2.
 Short name: WHO TRS No. 961, Annex 2 http://whqlibdoc.who.int/trs/WHO TRS 961 eng.pdf?ua=1
- 12. WHO guidelines for drafting a site master file. WHO Expert Committee on Specifications for Pharmaceutical Preparations. Forty-Fifth Report Geneva, World Health Organization, 2011 (WHO Technical Report Series, No. 961), Annex 14. Short name: WHO TRS No. 961, Annex 14 http://whqlibdoc.who.int/trs/WHO TRS 961 eng.pdf?ua=1
- WHO guidelines on quality risk management. WHO Expert Committee on Specifications for Pharmaceutical Preparations. Forty-Seventh Report Geneva, World Health Organization, 2013 (WHO Technical Report Series, No. 981), Annex 2. Short name: WHO TRS No. 981, Annex 2 http://www.who.int/medicines/areas/quality_safety/quality_assurance/expert_committee/trs_981/en/
- 14. WHO guidelines on variation to a prequalified product. WHO Expert Committee on Specifications for Pharmaceutical Preparations. Forty-Seventh Report Geneva, World Health Organization, 2013 (WHO Technical Report Series, No. 981), Annex 3. Short name: WHO TRS No. 981, Annex 3 http://www.who.int/medicines/areas/quality_safety/quality_assurance/expert_committee/trs_981/en/
- 15. WHO Guidelines on good manufacturing practices: validation, Appendix 7: non-sterile process validation. WHO Expert Committee on Specifications for Pharmaceutical Preparations. Forty-Ninth Report Geneva, World Health Organization, 2015 (WHO Technical Report Series, No. 992), Annex 3. Short name: WHO TRS No. 992, Annex 3

http://www.who.int/medicines/areas/quality_safety/quality_assurance/expert_committee/WHO_TRS_992_we b.pdf

- 16. WHO General guidance on hold-time studies WHO Expert Committee on Specifications for Pharmaceutical Preparations. Forty-Ninth Report Geneva, World Health Organization, 2015 (WHO Technical Report Series, No. 992), Annex 4. Short name: WHO TRS No. 992, Annex 4 http://www.who.int/medicines/areas/quality_safety/quality_assurance/expert_committee/WHO_TRS_992_we b.pdf
- 17. WHO Technical supplements to Model Guidance for storage and transport of time and temperature sensitive pharmaceutical products. WHO Expert Committee on Specifications for Pharmaceutical Preparations. Forty-Ninth Report Geneva, World Health Organization, 2015 (WHO Technical Report Series, No. 992), Annex 5. Short name: WHO TRS No. 992, Annex 5 http://www.who.int/medicines/areas/quality_safety/quality_assurance/expert_committee/WHO_TRS_992_we b.pdf
- WHO general guidance on variations to multisource pharmaceutical products. WHO Expert Committee on Specifications for Pharmaceutical Preparations. Fifties Report Geneva, World Health Organization, 2016 (WHO Technical Report Series, No. 996), Annex 10.
 Short name: WHO Multisource guidance or WHO TRS No. 996, Annex 10 http://www.who.int/medicines/publications/pharmprep/WHO_TRS_996_annex10.pdf
- 19. Guidelines on heating, ventilation and air-conditioning systems for non-sterile pharmaceutical products. WHO Expert Committee on Specifications for Pharmaceutical Preparations. Fifty Second Report Geneva,

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World Health Organization, 2018 (WHO Technical Report Series, No. 1010), Annex 8. Short name: WHO TRS No. 1010, Annex 8

http://www.who.int/medicines/areas/quality_safety/quality_assurance/expert_committee/trs_1010/en/

- 20. Stability testing of active pharmaceutical ingredients and finished pharmaceutical products. WHO Expert Committee on Specifications for Pharmaceutical Preparations. Fifty-Second Report Geneva, World Health Organization, 2018 (WHO Technical Report Series, No. 1010), Annex 10. Short name: WHO TRS No. 1010, Annex 10 http://www.who.int/medicines/publications/pharmprep/WHO TRS 996 annex10.pdf
- 21. WHO guidance on good practices for desk assessment of compliance with good manufacturing practices, good laboratory practices and good clinical practices for medical products regulatory decisions. WHO Expert Committee on Specifications for Pharmaceutical Preparations. Fifty-second Report. Geneva, World Health Organization, 2018 (WHO Technical Report Series, No. 1010), Annex 9. Short name: WHO TRS 1010, Annex 9 https://www.who.int/medicines/areas/quality_safety/quality_assurance/TRS1010annex9.pdf?ua=1
- Production of water for injection by means other than distillation. WHO Expert Committee on Specifications for Pharmaceutical Preparations. Fifty-Forth Report. Geneva, World Health Organization, 2020 (WHO Technical Report Series, No. 1025), Annex 3.
 Short name: WHO TRS No. 1025, Annex 3 https://www.who.int/publications-detail/978-92-4-000182-4
- Good chromatography practice. WHO Expert Committee on Specifications for Pharmaceutical Preparations. Fifty-Forth Report. Geneva, World Health Organization, 2020 (WHO Technical Report Series, No. 1025), Annex 4.
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