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Prequalification Unit Inspection services WHO PUBLIC INSPECTION REPORT (WHOPIR)

Desk Assessment of Active Pharmaceutical Ingredient (API) Manufacturer

Part 1	General information	
Company informa		
Name of	Cipla Ltd	
Manufacturer		
Corporate	Cipla House, Peninsula Business Park, Ganpatrao Kadam, Marg, Lower Parel,	
address of	Mumbai 400013, India	
manufacturer		
Inspected site		
Name & address	Cipla Ltd, Unit I (API)	
of	Plot A-33, A37/2/2 & A-2 M.I.D.C, Patalganga, Taluka: Khalapur, District: Raigad	
manufacturing	Maharashtra state, 410 220, India.	
site	D-U-N-S: 916940208	
	Latitude: 18°, 877177`N	
	Longitude: 73°, 182783`E	
Synthetic	Unit I	
Unit/Block/W		
orkshop		
Manufacturing	License No (25) 845 & (28) 707 valid until 31.12.2022	
license		
number		
Name & address	Cipla Ltd, Unit II (API)	
of	Plot A-42 M.I.D.C., Patalganga, Taluka: Khalapur, District: Raigad Maharashtra state,	
manufacturing	410 220 India.	
site	D-U-N-S: 916940208	
	Latitude: 18°, 875662`N	
	Longitude: 73°, 178696`E	
Synthetic	Unit II	
Unit/Block/W		
orkshop		
Manufacturing	Form 26 - license No (25) KD620 & (28) KD 435 valid until 17.08.2021	
license		
number		
Desk assessment d	letails	
Start and end	26 – 30 October 2020	
dates of review		
APIs covered by	Unit I	
this desk	1. Artesunate	
assessment	2. Daclatasvir dihydrochloride	
APIs covered by	Unit II	
this desk	1. Lamivudine	
assessment	2. Artesunate	
	3. Artemether	
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Cipla Ltd, Unit I and II (API) Patalganga, India-Desk Review-API

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	4. Lumefantrine
	5. Lamivudine anhydrous
List of	1. FDA EIR, dates of inspection 4 – 13 November 2019 and EIR cover letter
documents	2. Compliance report (CAPA) FDA inspection 4 – 13 November 2019
submitted	3. USFDA Form 483, dates of inspection 4 – 13 November 2019
	4. EDQM inspection report, dates of inspection $7 - 9$ March 2018
	5. Compliance report (CAPA) EDQM inspection 7 – 9 March 2018
	6. EDQM GMP certificate
	7. GMP certificates Unit I (issued 19 December 2018 No NEW-WHO-GMP / CERT /
	KD / 73115 / 2018/ 11/ 26155, valid till 16 December 2021) and Unit II (issued 3
	October 2019 No NEW-WHO-GMP / CERT / KD / 83192 / 2019 / 11 / 29628, valid
	till 26 September 2022.
	8. Manufacturing license Unit I issued by Food & Drugs Administration (Maharashtra
	State) –license No (25) 845 & (28) 707 valid until 31.12.2022
	9. Manufacturing license Unit II issued by Food & Drugs Administration (Maharashtra
	State) Form 26 - license No (25) KD620 & (28) KD 435 valid until 17.08.2021
	10. SMF Unit I and Unit II and layouts
	11. List of regulatory inspections performed in the last 5 years Unit I and Unit II
	12. Lists of products manufactured Unit I and Unit II
	13. Recall declarations Unit I and Unit II
	14. Confirmation self-inspection Unit I and Unit II
	15. Declaration: List of equipment that is shared between WHO APIMFs with Sartan
	APIs, Unit I and Unit II
	16. Declaration: Usage of recovered solvents or reagents in the manufactured of WHO APIMFs, Unit I and Unit II
	17. Declaration: Usage of outsourced recovered solvents for WHO APIMFs, Unit I and Unit II
	18. Declaration Unit II: Artesunate additional micronization carried out at Unit I
	19. Declaration: Lamivudine Anhydrous not manufactured in Unit I
	20. Unit I
	a. Master BMR, BMR, analytical raw data and CoA of Daclatasvir
	dihydrochloride
	21. Unit II
	a. Master BMR, BMR, analytical raw data and CoA of Artesunate
	b. Master BMR, BMR, analytical raw data and CoA of Artemether
	c. Master BMR, BMR, analytical raw data and CoA of Lamivudine
	d. Declaration regarding Lumefantrine manufacturing at Unit II – last batch
	manufactured July 2014
	22. PQRs Unit I
	a. Daclatasvir dihydrochloride Mar 2019 – Feb 2020, one batch manufactured
	23. PQRs Unit II
	a. Artesunate Jan 2019 – Dec 2019, 3 batches manufactured
	b. Artemether Jun 2019 – May 2020, 28 batches manufactured
	c. Lamivudine Nov 2018 – Oct 2019, no batches manufactured
	d. Lumefantrine Jun 2019 – May 2020, no batches manufactured
Any documents	N/A
missing?	

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Part 2	Summary of SRA/NRA insp and comments	ection evidence considered (from most recent to last)	
US FDA, USA	Dates of inspection:	4 – 13 November 2019	
	Type of inspection:	Pre-announce surveillance cGMP inspection	
	Block/Unit/Workshop:	Unit I FPPs and APIs Unit II FPPs and APIs	
	APIs covered:	 Albuterol Sulfate Cetirizine Dihydrochloride Danazol Levalbuterol Hydrochloride Perindopril Erbumine Monohydrate Pirfenidone Praziquantel Solifenacin Succinate Levocetirizine Dihydrochloride Escitalopram Oxalate Tolterodine Tartrate WHO APIs under PQ were not specifically covered 	
EDQM	Dates of inspection:	7 – 9 March 2018	
-	Type of inspection:	GMP inspection in the framework of the CEP dossier	
	Block/Unit/Workshop:	Unit I and Unit II	
	API covered:	Desloratadine Cetirizine dihydrochloride Finasteride WHO APIs under PQ were not specifically covered	
US FDA, USA	Dates of inspection:	27 November – 6 December 2017	
	Type of inspection:	Surveillance inspection	
	Block/Unit/Workshop:	Unit I and Unit II	
	API covered:	 Escitalopram Oxalate Darifenacin Hydrobromide Cetirizine Dihydrochloride USP Danazol USP Albuterol Sulfate Valacyclovir Hydrochloride USP Rivastigmine Tartrate USP Levocetirizine Dihydrochloride Artesunate 	

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Part 3	Summary of the last WHO inspection	
Date and	The site (Unit I and II) was inspected by WHO 15 – 18 January 2018 – routine	
conclusion of	inspection	
most recent	Initial conclusion:	
WHO inspection	"Based on the areas inspected, the people met and the documents reviewed, and considering the findings of the inspection, including the observations listed in the Inspection Report, a decision on the compliance of APIs (Artemether, Artesunate, Lamivudine, Lumefantrine, Moxifloxacin Hydrochloride, Daclatasvir Dihydrochloride) made by Plot A-33 & A-2 MIDC Industrial Area, Patalganga, Raigad District, Maharashtra, 410 220, India and Plot A-42 MIDC Industrial Area, Patalganga, Raigad District, Maharashtra, 410 220, India with WHO GMP for Active Pharmaceutical Ingredients will be made after the manufacturer's response to the observations has been assessed.	
	CAPAs were submitted and assessed by the PQT: Inspection Team and the inspection, following the review of the CAPA, was closed 22 June 2018 as compliant with the standards of GMP published by WHO.	
Brief summary	Manufacturing, quality control and batch release of:	
of	• Non-sterile medicinal products: coated/uncoated tablets,	
manufacturing	Active Pharmaceutical Ingredients (APIs) and drug intermediates	
activities as of		
January 2018		
General	Cipla Limited is a public limited company established in 1935 by Dr K.A. Hamied and	
information	managed by a professional board of directors. It has its own management control &	
about the	operation and has no parent company.	
company		
and	Cipla manufactures products of various ranges including Prescription, Animal Health	
manufacturing	care, OTC and Active Pharmaceutical Ingredients, which are supplied to over 150	
site of January	countries located in the various regions including USA, Europe, Australia, South America,	
2018	Brazil, Middle East Asia and Africa. It also has Research centers located at Vikhroli,	
	Patalganga and Bengaluru.	
Focus of the last	APIs under WHO prequalification	
WHO inspection		
Areas inspected	Quality management	
	Product quality review	
	APOR Artesunate	
	APQR Daclatasvir Dihydrochloride	
	• APQR Artemether	
	APQR Moxifloxacin Hydrochloride	
	Deviation handling	
	Management Review	
	Self-Inspection	
	Organizational Structure	
	Personnel	
	Job descriptions	
	• Training	
	Buildings and facility	

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	Design and construction
	Utilities and Water
	Lighting
	Sewage and refuse
	Sanitation and maintenance
	Process Equipment
	Design and construction
	Equipment maintenance and cleaning
	Calibration
	Computerized systems
	Documentation and Records
	Documentation system and specifications
	Equipment cleaning and use record
	Master production instructions
	Batch production records
	Retention period and destruction of documents
	Materials Management
	Vendor Qualification
	Quality audits
	API warehouse for Unit II
	Production and In-process controls
	Inspected production and in-process control areas for Unit I
	Packaging and identification labelling of Intermediates and APIs
	Storage and distribution system
	Laboratory Controls
	• Laboratory information management system (LIMS)
	• Out of specification (OOS) and review of the selected OOS
	Analytical incidences
	Polymorphism (WHO products)
	• Stability
	Validation
	Process validation
	Stage-I: Manufacturing of DCV Imidazole HCl
	Stage-II: Manufacturing of finished Daclatasvir Dihydrochloride
	Analytical method validation
	Change control
	Rejection and re-use of materials
	Complaints and recalls
	Contract manufacturers
	Self-inspection
Out of scope	Products not under WHO PQ
and restrictions	
(last WHO	
inspection)	

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WHO APIs	• Artemether
covered by the	• Artesunate
last WHO	• Lamivudine
inspection	• Lumefantrine
•	Moxifloxacin Hydrochloride
	Daclatasvir Dihydrochloride
Additional	N/A
products to be	
covered by this	
desk	
assessment:	
Abbreviations	Meaning
BMR	Batch manufacturing record
BPR	Batch production record
CC	Change control
GMP	Good manufacturing practices
PQR	Product quality review
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 authorizations:

- Unit I issued by Food & Drugs Administration (Maharashtra State) –license No (25) 845 & (28) 707 valid until 31.12.2022
- Unit II issued by Food & Drugs Administration (Maharashtra State) Form 26 license No (25) KD620 & (28) KD 435 valid until 17.08.2021

GMP certificates:

- Unit I (issued 19 December 2018 No NEW-WHO-GMP / CERT / KD / 73115 / 2018/ 11/ 26155, valid till 16 December 2021)
- Unit II (issued 3 October 2019 No NEW-WHO-GMP / CERT / KD / 83192 / 2019 / 11 / 29628, valid till 26 September 2022.

b) Site master file (SMF):

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

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

Sr No	Therapeutic Category	No. of API
1	Anti-Asthmatic	4
2	Anti-Arrthythmic	1
3	Anti-bacterial	1
4	Anti-Convulsant	1
5	Anti-Depressant	3
6	Anti-Emetic	1
7	Antifibrotic & Anti-Inflammatory Agent	1
8	Antifungal	1
9	Anti-Gonadotropin	1
10	Antihelmintic	1
11	Anti-Histaminic	1
12	Anti-Hypertensive	5
13	Anti-Malarial	1
14	Anti-Spasmodic	1
15	Anti-thrombotic	1
16	Anti-viral	3
17	Bronchodilator	1
18	Cardio-vascular	1
19	Glycosylceramide synthase inhibitor	1
20	Nootropic	1
21	Treatment of Benign Prostatic Hypertrophy	2
22	Treatment of Hepatitis C	1
23	Treatment on Urinary Incontinence	2

Unit II

Sr No	Therapeutic Category	No. of API
1	Anti-Material	3
2	Anti – Histaminic	3
3	Anti – Depressant	3
4	Treatment of Benign Prostatic	1
	Hypertrophy	
5	Anti-Retroviral	1
6	Anti-Helminthic	1

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

	Regulatory authority	Dates of inspection	Outcome
1	USFDA	4 – 13 Nov 2019	EIR received
	Unit I and Unit II		
2	Joint Inspection by CDSCO & FDA	6 – 8 May 2019	Approved
	for WHO GMP certification		
	(Unit II)		
3	Ministry of Health, Labour and Welfare	Desk top audit March 2019	Accreditation
	Takumi Namato, Japan		received
	Unit I and Unit II		
4	Joint Inspection by CDSCO & FDA for	8 – 10 August 2018	Approved
	WHO GMP certification		
	(Unit I)		
5	EDQM	7 - 9 March 2018	Approved
	Unit I and Unit II		
6	USFDA	27 Nov - 6 Dec 2017	EIR received
	Unit I and Unit II		
7	TGA Australia	Desk top audit June 2017	Approved
8	Joint Inspection by CDSCO & FDA for	19 – 20 September 2016	Approved
	WHO GMP certification		
	(Unit II)		
9	COFEPRIS, Mexico	16 - 21 February 2015	Approved
	Unit I and Unit II		
10	USFDA	23 - 27 February 2015	EIR received
	Unit I and Unit II		

e) Most recent product quality reviews (PQRs) of the concerned WHO APIs:

Unit I submitted and reviewed:

1. Daclatasvir dihydrochloride Mar 2019 - Feb 2020

Note:

Declaration submitted: Artesunate and Lamivudine anhydrous – batches not manufactured, PQR not submitted

Unit II

Submitted:

- 1. Lamivudine Nov 2018 Oct 2019, no batches manufactured
- 2. Lumefantrine Jun 2019 Nay 2020, no batches manufactured

Submitted and reviewed:

- 1. Artesunate Jan 2019 Dec 2019
- 2. Artemether Jun 2019 May 2020

Note:

Declaration submitted: Lamivudine anhydrous - batches not manufactured, PQR not submitted

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

Unit I submitted and reviewed:

1. Daclatasvir dihydrochloride

Note:

Declaration: Artesunate and Lamivudine anhydrous – batches not manufactured, BMR/BMR and analytical part not submitted

Unit II

Submitted and reviewed:

- 1. Artesunate
- 2. Artemether
- 3. Lamivudine

Note:

Declaration: Lamivudine anhydrous – batches not manufactured, Lumefantrine – last batch manufactured July 2014, BMR/BMR and analytical part not submitted

g) Master batch manufacturing and packaging records of the APIs of interest:

Unit I submitted:

1. Daclatasvir dihydrochloride

Note:

Declaration: Artesunate and Lamivudine anhydrous – batches not manufactured, master BMR/BMR and not submitted

Unit II

Submitted:

- 1. Artesunate
- 2. Artemether
- 3. Lamivudine

Note:

Declaration: Lamivudine anhydrous – batches not manufactured, Lumefantrine – last batch manufactured July 2014, master BMR/BMR not submitted

h) Recalls in the past three years related to APIs with quality defects:

Declaration submitted: no recalls in past three years Unit I and Unit II

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: Unit I and Unit II full self-inspection dedicated to the APIs has been performed and all matters dealt with

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Copy of any warning letter, or equivalent regulatory action, issued by any authority for their j) market, to which the site provides or has applied to provide the APIs:

Declaration submitted: Unit I and Unit II – no warning letter, or equivalent regulatory action, issued by any authority

k) Out-of-stock situations:

Declaration submitted: Unit I and Unit II: no out-of-stock situations

D Additional documents submitted:

- 1. SOP "Evaluation of Nitrosamine impurities"
- 2. Study protocol & report "Assessment of nitrosamine potential impurities in drug substance
- 3. PMDS accreditation certificate
- 4. SOP "Annual product quality review"
- 5. Amendment to Artemether Jun 2019 May 2020
- 6. OOS No XX

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 sites:

- Cipla Ltd, Unit I (API), located at Plot A-33, A37/2/2 & A-2 M.I.D.C, Patalganga, Taluka: Khalapur, District: Raigad-Maharashtra state, 410 220, India and
- Cipla Ltd, Unit II (API), located at Plot A-42 M.I.D.C., Patalganga, Taluka: Khalapur, District: Raigad Maharashtra state, 410 220 India

are considered to be operating at an acceptable level of compliance with WHO GMP guidelines for APIs.

This WHOPIR 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
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1. 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 GMP for APIs or WHO TRS No. 957, Annex 2

http://apps.who.int/medicinedocs/documents/s20119en/s20119en.pdf

2. WHO good manufacturing practices for pharmaceutical products: main principles. WHO Expert Committee on Specifications for Pharmaceutical Preparations. Forty-eighth 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 good manufacturing practices: water for pharmaceutical use. WHO Expert Committee on Specifications for Pharmaceutical Preparations. Fourth-sixth Report. Geneva, World Health Organization, 2012 (WHO Technical Report Series, No. 970), Annex 2.
 Short name: WHO TRS No. 970, Annex 2 http://www.who.int/medicines/areas/quality_safety/quality_assurance/expert_committee/trs_970/en/
- 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
- 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, 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/
- 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
- 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. 961, 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

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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://wholibdoc.who.int/trs/WHO_TRS_961_eng.pdf2ua=1

http://whqlibdoc.who.int/trs/WHO_TRS_961_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 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
- 14. 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/
- 15. 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/
- 16. 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 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 web.pdf
- 18. 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 _web.pdf

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- 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 web.pdf
- 20. WHO Recommendations for quality requirements when plant derived artemisin is used as a starting material in the production of antimalarial active pharmaceutical ingredients. WHO Expert Committee on Specifications for Pharmaceutical Preparations. Forty-ninth Report Geneva, World Health Organization, 2015 (WHO Technical Report Series, No. 992), Annex 6

Short name: WHO TRS No. 992, Annex 6 http://www.who.int/medicines/areas/quality_safety/quality_assurance/expert_committee/WHO_TRS_992 _web.pdf

- Guidance on good data and record management practices. WHO Expert Committee on Specifications for Pharmaceutical Preparations. Fiftieth Report Geneva, World Health Organization, 2016 (WHO Technical Report Series, No. 996), Annex 5.
 Short name: WHO GDRMP guidance or WHO TRS No. 996, Annex 5 http://www.who.int/medicines/publications/pharmprep/WHO_TRS_996_annex05.pdf
- WHO general guidance on variations to multisource pharmaceutical products. WHO Expert Committee on Specifications for Pharmaceutical Preparations. Fiftieth 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
- 23. 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
- 24. Production of water for injection by means other than distillation. WHO Expert Committee on Specifications for Pharmaceutical Preparations. Fifty-fourth Report. Geneva, World Health Organization, 2020 (WHO Technical Report Series, No. 1015), Annex 3.
 Short name: WHO TRS No. 1025, Annex 3
 https://www.who.int/publications-detail/978-92-4-000182-4
- 25. Good chromatography practice. WHO Expert Committee on Specifications for Pharmaceutical Preparations. Fifty-fourth Report. Geneva, World Health Organization, 2020 (WHO Technical Report Series, No. 1025), Annex 4. Short name: WHO TRS No. 1025, Annex 4 https://www.who.int/publications-detail/978-92-4-000182-4

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26. Points to consider for manufacturers and inspectors: environmental aspects of manufacturing for the prevention of antimicrobial resistance. WHO Expert Committee on Specifications for Pharmaceutical Preparations. Fifty-fourth Report. Geneva, World Health Organization, 2020 (WHO Technical Report Series, No. 1025), Annex 6.

Short name: WHO TRS No. 1025, Annex 6

https://www.who.int/publications-detail/978-92-4-000182-4

27. 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.iot/medicinac/grags/guality_acfoty/guality_acgurance/TPS1010cenpay0.ndf?uc=1

 $https://www.who.int/medicines/areas/quality_safety/quality_assurance/TRS1010annex9.pdf?ua=1$

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