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Prequalification Team Inspection services WHO PUBLIC INSPECTION REPORT (WHOPIR)

Desk Assessment of Quality Control Laboratory (QCL)

Part 1	General information			
Laboratory inform	Laboratory information			
Name and address of QCL	InphA GmbH Institute for Pharmaceutical and Applied Analytics Emil-Sommer-Straße 7 28329 Bremen Germany			
Laboratory units/divisions	Quality Control Laboratory			
Desk assessment de	tails			
Start and end dates of review	23 May 2019			
Tests covered by this desk assessment	Type of Analysis	Finished Products	Active pharmaceutical ingredients	
	Physical/Chemical analysis Identification tests	clarity and opalescence, coloration, pH, density, refractive index, optical rotation, loss on drying, water content, residual solvents, limit tests, tablet hardness, friability, disintegration, dissolution, uniformity of dosage units (mass, content), osmolality, particulate contamination (visible particles), particulate contamination (subvisible particles) HPLC and SCE (DAD; UV-Vis, RI, conductivity	clarity and opalescence, coloration, pH, density, refractive index, optical rotation, melting point, loss on drying, water content, residual solvents, limit tests, sulphated ash HPLC and SCE (DAD; UV-Vis, RI,	
		conductivity, fluorescence, ELS, MS,	conductivity, fluorescence, ELS, MS,	

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		chemiluminescence,	chemiluminescence,
		pulsed amperometry	pulsed amperometry
		detection), GC	detection), GC
		(FID,MS), capillary	(FID,MS), capillary
		electrophoresis, TLC,	electrophoresis, TLC,
		UV-Vis	UV-Vis
		spectrophotometry,	spectrophotometry,
		FTIR, AAS, AES,	FTIR, AAS, AES,
		ICP/OES,	ICP/OES,
		electrophoresis,	electrophoresis,
		isoelectric focusing,	isoelectric focusing,
			_
	A	microscopy, basic tests	microscopy, basic tests
	Assay, impurities	HPLC and SCE	HPLC and SCE
	and related	(DAD; UV-Vis, RI,	(DAD; UV-Vis, RI,
	substances	conductivity,	conductivity,
		fluorescence, ELS,	fluorescence, ELS,
		MS,	MS,
		chemiluminescence,	chemiluminescence,
		pulsed amperometry	pulsed amperometry
		detection), GC (FID,	detection), GC (FID,
		MS), capillary	MS), capillary
		electrophoresis, TLC,	electrophoresis, TLC,
		UV-Vis	UV-Vis
		spectrophotometry,	spectrophotometry,
		FTIR, AAS, AES,	FTIR, AAS, AES,
		ICP/OES,	ICP/OES,
		electrophoresis,	electrophoresis,
		isoelectric focusing,	isoelectric focusing,
		volumetric titration	volumetric titration
		(visual,	(visual,
		potentiometric),	potentiometric),
		gravimetry,	gravimetry,
		microscopy	microscopy
	Microbiological	Sterility test, microbial	Sterility test, microbial
	analysis	count, specific	count, specific
		microorganisms,	microorganisms,
		bacterial endotoxins,	bacterial endotoxins,
		microbiological assay	microbiological assay
		of antibiotics	of antibiotics
	Miscellaneous	N/A	N/A
List of documents	• 1 Certificate DA	kkS 201703.pdf	
submitted	_		
2.501111100	 2_LIF_InphA_2019_05_07.pdf 2_LIF_Annex_01_List_SOP_2019_04.pdf 2_LIF_Annex_02_Organisational_Chart_2019_04.pdf 2_LIF_Annex_03_Plan_Lab_2019_04 2_LIF_Annex_04_Pictures_komp.pdf 2_LIF_Annex_05_List_of_Equipment.pdf 		
		6_List_of_ServiceLab_20	
	• 5a MJA Audit	Report_MJA_03_2017.pd	f

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	• 5b_Attestation_MJA201703.pdf			
		• 5c_DAkks_Audit_Report_09_2018.pdf		
		 6_OMCL-QA 17 18 DEF_Cas_MJA_201703.pdf 7 Conformation by Quality Manager.pdf 		
Any documents	- / conformation by	Quanty Manager.par		
missing?	None			
8				
Part 2	Summary of SRA/NRA inspection evidence considered (from most recent to last)			
DAkkS (Deutsche	Dates of inspection:	18 September 2018		
Akkreditierungs-	Type of inspection:	Monitoring the accreditation		
stelle, Berlin, Germany	Unit/Division inspected:	Not listed in the report.		
Germany	Tests covered:	Not listed in the report.		
EDQM –	Dates of inspection:	22/3/2017 to 24/3/2017		
Department of	Type of inspection: Joint inspection between EDQM and			
Biological	DAkkS Reassessment audit			
Standardization,	Unit/Division inspected:	Not listed in the report provided.		
OMCL Network	Tests covered:	Not listed in the report.		
and Healthcare		<u> </u>		
Part 3	Summary of the last WHC			
Date and conclusion of most	-	facility has not been conducted. A desk bruary 2014 (INSP-2018-0156).		
recent WHO	leview was performed 3 rec	oruary 2014 (11181-2018-0130).		
inspection	The evidence submitted was	s reviewed and WHO found the laboratory to be		
F	operating at an acceptable level of compliance with WHO Good Practices for			
	Pharmaceutical Quality Con			
Brief summary	InphA GmbH primary activ	ity is the testing of medicinal products and		
of		orities of the six-stake holding federal states,		
activities		oval market surveillance with the objective of		
	protection of consumer heal	th.		
	Example and the laboratory is involved in the testing of exemisions			
	Furthermore, the laboratory is involved in the testing of suspicious unknown products and counterfeits.			
	It also participates in the development of monographs, in collaborative trials,			
	market surveillance studies, testing of centrally authorized products and in			
	inspections on behalf of the competent authorities and conducts trainings for			
	different audiences regarding laboratory related topics. These services are			
	also offered to third parties as long as the work on behalf of the stakeholder is not compromised.			
General		n 1995 by four German federal states (Bremen,		
information		nd Schleswig-Holstein). In 2001 and 2002,		
about the	respectively, the federal states of Hesse and Saarland joined the institute.			
	1, 15 5			
QCL				

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	The laboratory is involved and regularly participates in a number of		
	proficiency testing schemes (EDQM and others if available).		
	A		1 , 1
E C (1 1)		w there were a total of 26 l	aboratory employees.
Focus of the last	Desk review		
WHO inspection	Not applied 1.1		
Areas inspected	Not applicable		
Out of scope and	Not Applicable		
restrictions (last			
WHO inspection)			
WHO Prequalified			
tests covered by	Type of Analysis	Finished Products	Active
the last WHO			pharmaceutical
inspection			ingredients
	Physical/Chemical	clarity and	clarity and
	analysis	opalescence,	opalescence,
		coloration, pH,	coloration, pH,
		density, refractive	density, refractive
		index, optical rotation,	index, optical rotation,
		water content, residual	melting point, loss on
		solvents, limit tests,	drying, water content,
		tablet hardness,	residual solvents, limit
		friability,	tests, sulphated ash
		disintegration,	
		dissolution, uniformity	
		of dosage units (mass,	
		content), osmolality,	
		particulate matter (visible)	
	Identification tests	HPLC (DAD; UV-Vis,	HPLC (DAD; UV-Vis,
	idenuncation tests	RI, conductivity,	RI, conductivity,
		fluorescence, ELS,	fluorescence, ELS,
		MS, charged Aerosol,	MS, charged Aerosol,
		chemiluminescence,	chemiluminescence,
		pulsed amperometry	pulsed amperometry
		detection), GC (FID,	detection), GC (FID,
		MS), capillary	MS), capillary
		electrophoresis, TLC,	electrophoresis, TLC,
		UV-Vis	UV-Vis
		spectrophotometry,	spectrophotometry,
		FTIR, AAS, AES,	FTIR, AAS, AES,
		ICP/OES,	ICP/OES,
		electrophoresis,	electrophoresis,
		isoelectric focusing,	isoelectric focusing,
		basic tests	basic tests

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	Assay, impurities	HPLC (DAD; UV-Vis,	HPLC (DAD; UV-Vis,
	and related	RI, conductivity,	RI, conductivity,
	substances	fluorescence, ELS,	fluorescence, ELS,
		MS, charged Aerosol,	MS, charged Aerosol,
		chemiluminescence,	chemiluminescence,
		pulsed amperometry	pulsed amperometry
		detection), GC (FID,	detection), GC (FID,
		MS), capillary	MS), capillary
		electrophoresis, TLC,	electrophoresis, TLC,
		UV-Vis	UV-Vis
		spectrophotometry,	spectrophotometry,
		FTIR, AAS, AES,	FTIR, AAS, AES,
		ICP/OES,	ICP/OES,
		electrophoresis,	electrophoresis,
		isoelectric focusing,	isoelectric focusing,
		volumetric titration	volumetric titration
		(visual,	(visual,
		potentiometric),	potentiometric),
		gravimetry	gravimetry
	Microbiological	Sterility test, microbial	Sterility test, microbial
	analysis	count, specific	count, specific
		microorganisms,	microorganisms,
		bacterial endotoxins	bacterial endotoxins
	Miscellaneous	None	None
Additional tests			
covered by this	Nil		
desk assessment:			
Abbreviations	Meaning		
API	Active pharmaceutical ingredient		
CAPA	Corrective and preventive action		
FPP	Finished pharmaceutical product		
FTIR	Fourier transform infrared spectrophotometer		
GC	Gas chromatograph or gas chromatography		
GLP	Good laboratory practices		
GPPQCL	Good practices for pharmaceutical quality control laboratories		
HPLC	High performance liquid chromatograph		
QA	Quality assurance		
QCL	Quality control laboratory		
SOP	Standard operating procedure		



Part 4

Summary of the assessment of additional supporting documentation

a) Authorization granted by the local authority (if any) or ISO 17025 certificate: The laboratory provided a copy of the Attestation that declares InphA Institute for Pharmaceutical and Applied Analytics GmbH to be in accordance with EDQM instruction IS7/02 on the OMCL Network Mutal Joint Audit Scheme.

Attestation number – EDQM/MJA – 122, Strasbourg, 22 August 2017 - valid until February 2021.

b) Laboratory information file (LIF):

A comprehensive laboratory information file was provided and was arranged according to WHO requirements (2_LIF_InphA_2019_05_07.pdf)

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

The following regulatory inspections were provided.

- DAkkS, Berlin, Germany (18th September 2018) found acceptable
- DAkkS (23rd 24th March 2017) and OMCL network (23rd 24th March 2017) Joint inspection found acceptable.

d) Qualification, validation and calibration status of equipment:

A detailed description of equipment maintenance and preventive maintenance was provided in section 6.1 of the LIF. The qualification of equipment was provided in section 6.3. The laboratory performs design qualification and installation once during the life cycle of the instrument unless there are intended changes or subsequent medications are planned including if the instrument is relocated. All measuring equipment is calibrated with calibration intervals provided. The calibration intervals were determined according to the frequency of use and the risk.

List available in 2 LIF 05 List of Equipment.pdf

e) Confirmation by the quality manager that a full self-inspection dedicated to the tests submitted for prequalification has been performed and all matters dealt with:

An internal Audit plan is established by the quality manager who ensures that all aspects and areas of the laboratory are covered. Approval of the plan is granted by the head of the institute.

f) Additional documents submitted:

N/A

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Part 5

Conclusion - Desk assessment outcome

Based on the previous WHO inspections and on the GPPQCL evidence received and reviewed, it is considered that a desk assessment is acceptable in lieu of a WHO onsite inspection. The site *InphA GmbH Institute for Pharmaceutical and Applied Analytics*, located at *Emil-Sommer-Straße 7 28329 Bremen, Germany*, is considered to be operating at an acceptable level of compliance with WHO GPPQCL guidelines.

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

- 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 GPPQCL Guidelines or TRS No. 957, Annex 1 http://www.who.int/medicines/publications/44threport/en/
- 2. 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
- 3. 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 GMP Guidelines or TRS No. 986, Annex 2

 http://www.who.int/medicines/areas/quality_safety/quality_assurance/expert_committee/trs_986/en/
- 4. 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-
- 5. 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

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6. 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/

7. 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

8. 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/

9. 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 2. *Short name: WHO TRS No. 957, Annex 2*

http://www.who.int/medicines/publications/44threport/en/

10.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

11. 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

12. 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



- 13. 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
- 14. 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

15. 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/

- 16. 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/
- 17. 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
- 18. 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
- 19. 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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- 20. 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
- 21. 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 TRS No. 996, Annex 5**http://www.who.int/medicines/publications/pharmprep/WHO TRS 996 annex05.pdf
- 22. 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 TRS No. 996, Annex 10

 http://www.who.int/medicines/publications/pharmprep/WHO TRS 996 annex10.pdf
- 23. WHO Recommendations for quality requirements when plant derived artemisin is used as a starting material in the prosecution 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_TR
- 24. 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

S 992 web.pdf