WHO List of Prequalified Quality Control Laboratories

Date: 07 September 2020

- This list contains **fifty-seven (57)** quality control laboratories, which expressed their interest to participate in the World Health Organization (WHO) prequalification procedure, have been assessed as part of the WHO Prequalification Programme and found to comply with standards recommended by WHO. Only laboratories meeting these standards are included in the list.

- WHO ensures compliance with Good Practices for National Pharmaceutical Control Laboratories (GPCL) and relevant parts of WHO Good Manufacturing Practices (GMP) at the quality control laboratories prior to listing them as being prequalified.

- WHO inspections are done by a team of inspectors including:

    1. An inspector/expert from one of the Pharmaceutical Inspection Cooperation Scheme (PIC/S) countries
    2. A WHO representative (inspector / expert)
    3. An inspector (or inspectors) as an observer from the National Drug Regulatory Authority of the country, in which the laboratory is located, subject to their availability at the time and as relevant.

- Observations listed in the inspection reports should be addressed to a satisfactory level of compliance by the laboratories prior to listing in the list of prequalified laboratories. The corrective actions taken by the laboratories are assessed through documentation review and follow-up inspections when these are required.

- WHO Public Inspection Reports (WHOPIRs) are published on this web page for laboratories found to be meeting WHO norms and standards. A WHOPIR provides a summary of the initial inspection report.

This list is the **51st Edition**. Laboratories are listed according to WHO regions and within the region in the alphabetical order. Kindly ensure that the most current list is used. For changes to the list, see Version history (below the list).

The Quality Control Laboratory and contact details	Date of last inspection[1]	Final outcome	Date of pre-qualification	The area of expertise inspected and considered prequalified		
WHO African Region						
				Type of analysis	*Finished products*	*Active pharmaceutical ingredients*
Adcock Ingram Limited - **Research and Development** 1 Sabax Road, Aeroton Johannesburg, 2013 South-Africa Postal address: Private Bag X69 Bryanston, 2021 South-Africa Tel: + 27 11 494 8135 e-mail: Palka.Parbhoo@adcock.com	08-09.12.2016	Compliant with WHO recommended standards	15.1.2008	Physical/Chemical analysis	pH, water content, loss on drying, friability, disintegration time, tablet hardness, dissolution, AA, viscosity, density, dimensions	pH, water content, melting point, loss on drying, refractometry
				Identification	IR, TLC, HPLC, AA, spectrophotometry and basic tests	IR, TLC, HPLC, spectrophotometry and basic tests
				Assay, impurities and related substances	HPLC (UV-VIS, DAD, RI detection), GC, UV, AA and FTIR spectrophotometry and volumetric titrations Determination of related substances and impurities by comparison with a reference standard	HPLC (UV-VIS, DAD, RI detection), GC, UV, AA and FTIR spectrophotometry, polarimetry and volumetric titrations Determination of related substances and impurities by comparison with a reference standard
				Stability studies	ICH conditions	

[1] Date of last inspection performed by WHO unless otherwise indicated.

				Type of analysis	*Finished products*	*Active pharmaceutical ingredients*
Laboratory of the Mission for Essential Drugs and Supplies - (MEDS) PO Box 78040, Viwandani Nairobi, 00507 Kenya Tel. +254 20 3920202, +254 20 3920000 e-mail: lab@meds.or.ke	15-16.4.2019	Compliant with WHO recommended standards	23.3.2009	Physical/Chemical analysis	pH, loss on drying, water content, conductivity, refractometry, friability, disintegration, dissolution, density, uniformity of dosage units (mass, content)	pH, loss on drying, water content, refractometry, density
				Identification	HPLC (UV-VIS, DAD, RID, fluorescence detection), GC, UV-VIS and IR spectrophotometry, TLC, chemical reaction.	HPLC (UV-VIS, DAD, RID, fluorescence detection), GC, UV-VIS and IR spectrophotometry, TLC, chemical reaction.
				Assay, impurities and related substances	HPLC (UV-VIS, DAD, RID, fluorescence detection), UV-VIS spectrophotometry, GC, Volumetric titrations, polarimetry, Determination of related substances/impurities and degradation products.	HPLC (UV-VIS, DAD, RID, fluorescence detection), UV-VIS spectrophotometry, GC, olumetric titrations, polarimetry, determination of related substances/impurities and degradation products.
				Microbiological tests	Bacterial endotoxins test (LAL) – Kinetic Chromogenic Method	Bacterial endotoxins test (LAL) – Kinetic Chromogenic Method
				Type of analysis	*Finished products*	*Active pharmaceutical ingredients*
M&L Laboratory Services (Pty) Ltd 40 Modulus Road, Ormonde, Johannesburg, South Africa, 2091 Tel: +2711 661 7900 Fax: +27 11 496 2239 e-mail: milly.vandayar@za.bureauveritas.com	12-13.12.2016	Compliant with WHO recommended standards	18.7.2017	Physical/Chemical analysis	pH, water content, loss on drying, water content (Karl fisher), friability, disintegration, tablet hardness, dissolutions, viscosity, density.	pH, water content, loss on drying, water content (Karl fisher), melting point, conductivity.
				Identification	IR, TLC, HPLC, UV, spectrophotometry and basic tests.	IR, TLC, HPLC, UV spectrophotometry and basic tests.
				Assay, impurities and related substances	HPLC (UV, fluorescence, RI, conductivity, PDA), UPLC (PDA), GC, UV, potentiometric and volumetric titrations Determination of related substances/impurities and degradation products.	HPLC (UV, fluorescence, RI, conductivity, PDA), UPLC (PDA), GC, UV, potentiometric and volumetric titrations Determination of related substances/impurities and degradation products.

				Type of analysis	*Finished products*	*Active pharmaceutical ingredients*
Medicines Control Authority of Zimbabwe (MCAZ) Quality Control Laboratory 106 Baines Avenue PO Box 10559 Harare Zimbabwe Tel. +263 4 736981-5 /708255 /792165 Cell: +263 772145191/3 e-mail: mcaz@mcaz.co.zw; gnmahlangu@mcaz.co.zw	20-21.1.2014	Compliant with WHO recommended standards	19.9.2014	Physical/Chemical analysis	pH, loss on drying, water content, limit tests, dissolution, uniformity of dosage units (mass, content)	pH, loss on drying, water content, limit tests
				Identification	HPLC (UV-VIS detection), UV-VIS spectrophotometry, basic tests	HPLC (UV-VIS detection), UV-VIS spectrophotometry, basic tests
				Assay, impurities and related substances	HPLC (UV-VIS detection), UV-VIS spectrophotometry, volumetric titrations	HPLC (UV-VIS detection), UV-VIS spectrophotometry, volumetric titrations
				Type of analysis	*Finished products*	*Active pharmaceutical ingredients*
National Drug Authority – National Drug Quality Control Laboratory (NDA-NDQCL) – Uganda Mulago Hill P.O. Box 23096 Kampala Uganda Tel.: +256 414 540067 e-mail: laboratory@nda.or.ug	19-20.6.2019	Compliant with WHO recommended standards	16.1.2015	Physical/Chemical analysis	pH, loss on drying, water content, density, friability, dissolution, uniformity of dosage units (mass, content)	pH, loss on drying, water content, density, melting point
				Identification	IR, HPLC (UV-VIS detection), UV-VIS spectrophotometry	FTIR, HPLC (UV-VIS detection), UV-VIS spectrophotometry
				Assay, impurities and related substances	HPLC (UV-VIS detection), UV-VIS spectrophotometry, volumetric titrations, polarimetry Determination of related substances/impurities and degradation products	HPLC (UV-VIS detection), UV-VIS spectrophotometry, volumetric titrations, polarimetry Determination of related substances/impurities and degradation products

				Type of analysis	*Finished products*	*Active pharmaceutical ingredients*
National Quality Control laboratory (NQCL) Hospital Road - KNH Complex 00202 -KNH, Nairobi Kenya Postal address: P.O. Box 29726 00202 -KNH, Nairobi Kenya Tel. +254 20 3544525/30 Fax: +254 20 2718073 e-mail: hchepkwony@nqcl.go.ke	24-25.6.2015	Compliant with WHO recommended standards	17.7.2008	Physical/Chemical analysis	pH, loss on drying, water content, friability, disintegration, dissolution, density	pH, loss on drying, water content, density, melting point
				Identification	FTIR, HPLC (UV-VIS detection), AAS, UV-VIS spectrophotometry	FTIR, HPLC (UV-VIS detection), AAS, UV-VIS spectrophotometry
				Assay, impurities and related substances	HPLC (UV-VIS detection), UV-VIS spectrophotometry, AAS, volumetric titrations, polarimetry Determination of related substances/impurities and degradation products	HPLC (UV-VIS detection), UV-VIS spectrophotometry, AAS, volumetric titrations, polarimetry, Determination of related substances/impurities and degradation products
				Microbiological tests	Sterility test, microbial purity, bacterial endotoxins test (LAL), microbial assay.	Microbial purity, microbial assay
				Type of analysis	*Finished products*	*Active pharmaceutical ingredients*
Research Institute for Industrial Pharmacy (RIIP) incorporating CENQAM North-West University Potchefstroom Campus Hoffman Street Potchefstroom 2531 South Africa <u>Postal address:</u> P/Bag X6001 Potchefstroom 2520	1-2.9.2014	Compliant with WHO recommended standards	CENQAM: 22.6.2005 RIIP: 5.7.2005 16.5.2008 - Change reflecting the merger of RIIP and CENQAM into one organization	Physical/Chemical analysis	pH, water content (Karl Fischer), loss on drying, friability, disintegration, tablet hardness, uniformity of dosage units (mass, content), tablet dimensions, dissolution, AA, viscosity, density/specific gravity, redispersibility/ reconstitution time, resuspendability and sedimentation rate	pH, water content (Karl Fischer), loss on drying, X-ray diffractometry, thermal analysis (DSC, TGA)
				Identification	IR, TLC, HPLC, spectrophotometry and basic tests	IR, TLC, HPLC, spectrophotometry and basic tests
				Assay, impurities and related substances	HPLC (fluorescence, UV, UV-Vis, DAD, RI detection), GC, spectrophotometry and volumetric titrations	HPLC (fluorescence, UV, UV-Vis, DAD, RI detection), GC, spectrophotometry and volumetric titrations

South Africa Tel: + 27 18 299 2268 Fax: + 27 18 299 2291 e-mail: Erna.Swanepoel@nwu.ac.za			with a single quality system		Determination of related substances/impurities and degradation products	Determination of related substances/impurities, degradation products and residual solvents
				Stability studies	WHO conditions	WHO conditions
				Type of analysis	*Finished products*	*Active pharmaceutical ingredients*
Tanzania Medicines and Medical Devices Authority (TMDA) Quality Control Laboratory Mandela Road, Mabibo, External P.O. Box 77150 Dar es Salaam Tanzania Tel: +255 22 2450512 / 2450751 Fax: +255 22 2450793 e-mail: dls@tfda.or.tz info@tfda.or.tz	23-24.1.2014	Compliant with WHO recommended standards	17.1.2011	Physical/Chemical analysis	pH, melting point, optical rotation, conductivity, friability, tablet hardness, disintegration, dissolution, uniformity of dosage units	pH, melting point, optical rotation, conductivity
				Identification	HPLC (UV-VIS, PDA detection), TLC, AAS, UV-VIS spectrophotometry	HPLC (UV-VIS, PDA detection), TLC, AAS, UV-VIS spectrophotometry
				Assay, impurities and related substances	HPLC (UV-VIS, PDA detection), TLC, AAS, UV-VIS spectrophotometry, polarimetry, volumetric titrations	HPLC (UV-VIS, PDA detection), TLC, AAS, UV-VIS spectrophotometry, polarimetry, volumetric titrations
				Type of analysis	*Finished products*	*Active pharmaceutical ingredients*
United States Pharmacopoeia – Ghana *No. 3, Park Avenue, Motorway Extension, North Dzowulu, Accra, Ghana* Tel: +233(0)30 221 6888; +233(0)221	11-13.6.2017	Compliant with WHO recommended standards	16.4.2018	Physical/Chemical analysis	pH, Loss on drying, Water content (Karl Fischer), Disintegration, Dissolution, Uniformity of dosage units (by mass or content)	pH, Loss on drying, sulphated ash, Acid insoluble ash, Water content (Karl Fischer), Residual solvents, Limit tests
				Identification	HPLC (UV-Vis, Fluorescence and Refractive index detection), GC with headspace (FID, TCD), UV-Vis spectrophotometry, FT-IR, Basic tests	HPLC (UV-Vis, Fluorescence and Refractive index detection), GC with headspace (FID, TCD), UV-Vis spectrophotometry, FT-IR, Basic tests

6874 e-mail: cepat@usp.org				Assay, impurities and related substances	HPLC (UV-Vis, Fluorescence and Refractive index detection), GC with headspace (FID, TCD), UV-Vis spectrophotometry, Volumetric titrations, Potentiometric titrations	HPLC (UV-Vis, Fluorescence and Refractive index detection), GC with headspace (FID, TCD), UV-Vis spectrophotometry, Volumetric titrations, Potentiometric titrations.

WHO Region of the Americas

				Type of analysis	*Finished products*	*Active pharmaceutical ingredients*
Comisión de Control Analítico y Ampliación de Cobertura (CCAYAC) Calzada de Tlalpan No. 4492 Colonia Toriello Guerra Delegación Tlalpan C.P.14050 México, D. F. Mexico Tel: +5255 5080 5200, ext 2000 e-mail: faarguelles@cofepris.gob.mx	19-22.4.2013	Compliant with WHO recommended standards	13.11.2013	Physical/Chemical analysis	pH, water content (Karl Fischer), loss on drying, dissolution, uniformity of dosage units (mass, content)	pH, water content, loss on drying
				Identification	HPLC (UV-VIS, DAD, fluorescence detection), TLC, UV-VIS spectrophotometry, FTIR	HPLC (UV-VIS, DAD, fluorescence, detection), TLC, UV-VIS spectrophotometry, FTIR
				Assay, impurities and related substances	HPLC (UV-VIS, DAD, fluorescence detection), TLC, UV-VIS spectrophotometry, FTIR, AAS/AES, volumetric titrations	HPLC (UV-Vis, DAD fluorescence detection), TLC, UV-VIS spectrophotometry, volumetric titrations
				Microbiological tests	Sterility test, microbial limit tests, bacterial endotoxins test (LAL), microbial assay of antibiotics	Sterility test, microbial limit tests, bacterial endotoxins test (LAL), microbial assay of antibiotics
				Type of analysis	*Finished products*	*Active pharmaceutical ingredients*
Comisión para el Control de Calidad de Medicamentos (CCCM) Br. Artigas 3223 Montevideo 11800 Uruguay	19-21.8.2013	Compliant with WHO recommended standards	16.9.2010	Physical/Chemical analysis	pH, water content, loss on drying, density, neutralizing capacity, dimensions, disintegration, dissolution, uniformity of dosage units (mass, content)	pH, water content, loss on drying, melting point, density, neutralizing capacity
				Identification	HPLC (UV-VIS, DAD, fluorescence, RI detection), TLC, UV-VIS spectrophotometry, FTIR, AAS/EA, basic tests	HPLC (UV-VIS, DAD, fluorescence, RI detection), TLC, spectroscopy (UV-VIS, FTIR, AA/EA), basic tests

Tel: +598 2209 4014 Fax: +598 2208 5673 e-mail: kcuadra@msp.gub.uy mhirschhorn@msp.gub.uy cccm@msp.gub.uy				Assay, impurities and related substances	HPLC (UV-VIS, DAD, fluorescence, RI detection), TLC, UV-VIS spectrophotometry, FTIR, AAS/AES, volumetric titrations, potentiometry, polarimetry Determination of related substances/ impurities, degradations products	HPLC (UV-VIS, DAD, fluorescence, RI detection), TLC, UV-VIS spectrophotometry, FTIR, AAS/AES, volumetric titrations, potentiometry, polarimetry Determination of related substances/ impurities, degradations products
				Microbiological tests	Sterility test, microbial limit tests, bacterial endotoxins test (LAL), microbial assay of antibiotics	Sterility test, microbial limit tests, bacterial endotoxins test (LAL), microbial assay of antibiotics
				Type of analysis	*Finished products*	*Active pharmaceutical ingredients*
Ezequiel Dias Foundation (FUNED) **Institute Octavio Magalhães** **Medicines Service of Public Health Central Laboratory** Conde Pereira Carneiro street 80 Gameleira neighbourhood Belo Horizonte Minas Gerais 30510-010 Brazil Fax: +55 31 3314-4653 e-mail: dpgq@funed.mg.gov.br medicamentos@funed.mg.gov.br	9-11.4.2018	Compliant with WHO recommended standards	20.10.2011	Physical/Chemical analysis	pH, water content, loss on drying, density, disintegration, dissolution, friability, uniformity of dosage units (mass, content)	pH, water content, loss on drying, density
				Identification	HPLC (UV-VIS, DAD, fluorescence detection), TLC, UV-VIS spectrophotometry, FTIR, basic tests	HPLC (UV-VIS, DAD, fluorescence detection), GC/MS, TLC, UV-VIS spectrophotometry, FTIR, basic tests
				Assay, impurities and related substances	HPLC (UV-VIS, DAD, fluorescence detection), TLC, UV-VIS spectrophotometry, FTIR, volumetric titrations, potentiometry; Determination of related substances/ impurities, degradations products	HPLC (UV-VIS, DAD, fluorescence detection), TLC, UV-VIS spectrophotometry, FTIR, volumetric titrations, potentiometry, Determination of related substances/ impurities, degradations products
				Microbiological tests	Sterility test, microbial limit tests, bacterial endotoxins test (LAL)	Sterility test, microbial limit tests, bacterial endotoxins test (LAL)

				Type of analysis	*Finished products*	*Active pharmaceutical ingredients*
Instituto Nacional de Controle de Qualidade em Saúde (INCQS) Av. Brasil no 4362 Manguinhos, CEP 21040-900 Rio de Janeiro Brazil Tel.: +55 21 3865 5151; +55 21 3865 5104 Fax: +55 21 2290 0915 e-mail: incqs@incqs.fiocruz.br; vdquali@incqs.fiocruz.br vera.machado@incqs.fiocruz.br	19-24.4.2018	Compliant with WHO recommended standards	11.3.2014	Physical/Chemical analysis	pH, density, optical rotation, disintegration, dissolution, uniformity of dosage units (mass, content)	n/a
				Identification	HPLC (UV-Vis, PDA detection), TLC, UV-VIS spectrophotometry, IR, basic tests	n/a
				Assay, impurities and related substances	HPLC (UV-Vis, PDA detection)	n/a
				Microbiological tests	Sterility test, microbial limit tests, bacterial endotoxins test (LAL), microbial assay of antibiotics	n/a
				Type of analysis	*Finished products*	*Active pharmaceutical ingredients*
K.A.B.S. Laboratories Inc. 4500 De Tonnancour St-Hubert, Quebec J3Y 9G2, Canada Tel.: +1 450 656 4404 Fax:: +1 450 656 4402 e-mail: kabsafric@kabs.com	26.11.2019 (Desk Review)	Compliant with WHO recommended standards	10.2.2010	Physical/Chemical analysis	pH, density, refractometry, viscosity, loss on drying, water content, disintegration, dissolution, uniformity of dosage units (mass, content), friability, tablet hardness, particulate matter test	pH, density, refractometry, specific optical rotation, viscosity, osmolarity, loss on drying, melting point, water content, heavy metals, acid value, iodine value, limit tests
				Identification	HPLC (UV-Vis, RI, conductivity detection), LC/MS, GC (FID, TCD), TLC, capillary electrophoresis, UV-Vis spectrophotometry, FTIR, AAS	HPLC (UV-Vis, RI, conductivity detection), LC/MS, GC (FID, TCD), TLC, capillary electrophoresis, UV-VIS spectrophotometry, FTIR, AAS, chemical reaction
				Assay, impurities and related substances	HPLC (UV-Vis, RI, conductivity detection), LC/MS, GC (FID, TCD), TLC, UV-Vis	HPLC (UV-Vis, RI, conductivity detection), LC/MS, GC (FID, TCD), TLC, UV-Vis

					spectrophotometry, AAS, fluorimetry, volumetric titrations, potentiometry, coulometry	spectrophotometry, AAS, fluorimetry, volumetric titrations, potentiometry, coulometry
				Stability studies	ICH conditions	ICH conditions
				Type of analysis	*Finished products*	
Laboratorio de Control de Calidad de Medicamentos y Toxicologia (CONCAMYT) Calle Rafael Zubieta No. 1889 Zona de Miraflores La Paz Bolivia Tel: +591 2 2226670 e-mail: garnicalopez@yahoo.es	16-18.3.2020	Compliant with WHO recommended standards	16.9.2010	Physical/Chemical analysis	pH, water content, loss on drying, density, conductivity, refractometry, dimensions, disintegration, dissolution, uniformity of dosage units (mass, content)	n/a
				Identification	HPLC (UV-VIS, PDA, fluorescence detection), TLC, UV-VIS spectrophotometry, IR, basic tests	n/a
				Assay, impurities and related substances	HPLC (UV-VIS, PDA, fluorescence detection), UV-VIS spectrophotometry, IR, volumetric titrations, polarimetry	n/a
				Microbiological tests	Sterility test, microbial limit tests, microbial assay of antibiotics	n/a
				Type of analysis	*Finished products*	*Active pharmaceutical ingredients*
The Drug Service of the Public Laboratory Dr Giovanni Cysneiros (LACEN-GO) Av Contorno No 3556, Jardim Bela Vista, Goiania, Goias, 74853-120, Brazil Tel: +55 62 32013885 +55 62 32013890 +55 62 32019633	13 to 17 April 2018	Compliant with WHO recommended standards	26.7.2018	Physical/Chemical analysis	pH, water content, loss on drying, dissolution, friability, uniformity of dosage units (mass, content).	n/a
				Identification	FTIR, TLC, HPLC (UV-Vis, DAD, fluorescence detection),UV-Vis spectrophotometry, basic tests.	n/a
				Assay, impurities and related substances	HPLC (UV-Vis, DAD, fluorescence detection), TLC, UV-Vis spectrophotometry, FTIR,	n/a

e-mail: rosa.msantos@saude.go.gov.br lacen.dirgeral@saude.go.bov.br					Volumetric and potentiometry. Titrations.	
				Microbiological tests	Microbial limit tests	n/a
				Type of analysis	*Finished products*	*Active pharmaceutical ingredients*
Instituto Nacional de Vigilancia de Medicamentos y Alimentos (INVIMA) Avenida Calle 26 No. 51-20, Bogota, Colombia Tel: +571 2948700 Fax: 3637 e-mail: avelascoc@invima.gov.co	11-13.3.2020	Compliant with WHO recommended standards	07.09.2020	Physical/Chemical analysis	pH, water content (Karl Fischer), loss on drying, disintegration time, tablet hardness, dissolution, density, uniformity of dosage units (mass, content), particulate matter test.	pH, water content (Karl Fischer), loss on drying, density, particulate matter test
				Identification	IR, TLC, HPLC, Optical Emission Spectrometry (ICP-OES), GC spectrophotometry and basic tests	IR, TLC, HPLC, Optical Emission Spectrometry (ICP-OES), GC spectrophotometry and basic tests
				Assay, impurities and related substances	HPLC (fluorescence, UV, UV-Vis, DAD, RI detection), GC, UV, Optical Emission Spectrometry (ICP-OES) and FTIR spectrophotometry and volumetric titrations Determination of related substances and impurities by comparison with a reference standard	HPLC (fluorescence, UV, UV-Vis, DAD, RI detection), GC, UV, Optical Emission Spectrometry (ICP-OES) and FTIR spectrophotometry and volumetric titrations Determination of related substances and impurities by comparison with a reference standard
WHO South-East Asia Region						
				Type of analysis	*Finished products*	*Active pharmaceutical ingredients*
Bureau of Drug and Narcotic (BDN) **Department of Medical Sciences** **Ministry of Public Health** 88/7 Tiwanond Road	16-18.9.2019	Compliant with WHO recommended standards	02.11.2012	Physical/Chemical analysis	pH, viscosity, loss on drying, particle size, water content, disintegration, dissolution, uniformity of dosage units (mass, content)	pH, refractive index, optical rotation, viscosity, melting point, loss on drying, sulphated ash, acid insoluble ash, water content, differential scanning calorimetry
				Identification	HPLC (UV-Vis detection), LC/MS, GC (FID), TLC, UV-Vis	HPLC (UV-Vis detection), LC/MS, GC (FID), TLC, UV-Vis

Muang Nonthaburi 11000 Thailand Tel: + 66 2580 4074 or +66 2951 0000 ext. 99122 or 99179 Fax: +66 2580 5733 e-mail: suratchanee.s@dmsc.mail.go.th boontarika.b@dmsc.mail.go.th					spectrophotometry, FTIR, basic tests	spectrophotometry, FTIR, basic tests
				Assay, impurities and related substances	HPLC (UV-Vis), GC (FID), TLC, UV-Vis spectrophotometry, AAS, fluorimetry, polarimetry, potentiometry	HPLC (UV-Vis), GC (FID), TLC, UV-Vis spectrophotometry, AAS, fluorimetry, polarimetry, potentiometry
				Type of analysis	*Finished products*	*Active pharmaceutical ingredients*
SGS India Pvt. Ltd - Life Science 2nd ,3rd and 4th Floor, TICEL Bio Park, CSIR Road, Chennai - 600113 Tamil Nadu India Tel. +91 44 661 39000-03 Fax: +91 44 2254 2600 e-mail: in.lifeqc@sgs.com	28-31.10.2016	Compliant with WHO recommended standards	9-12.12.2019	Physical/Chemical analysis	pH, refractive index, water content, Loss on drying, density, residual solvents, limit tests, tablet hardness, friability, disintegration, dissolution, uniformity of dosage units (mass, content), Particulate matter test, Osmolality test.	pH, density, refractive index, melting point, loss on drying, heavy metals, sulphated ash, water content, conductivity, residual solvents, limit tests, particle size
				Identification	HPLC (UV-Vis, RI, DAD detector), GC(FID), TLC, UV-Vis spectrophotometry, FTIR, basic tests.	HPLC (UV-Vis, RI, DAD detector), GC (FID), TLC, UV-Vis spectrophotometry, FTIR, basic Tests.
				Assay, impurities and related substances	HPLC (UV-Vis, RI, DAD detector, UPLC (UV-Vis, PDA detector), GC (FID), UV-Vis Spectrophotometry, AAS, FTIR, ICP-MS, potentiometry, volumetric titrations.	HPLC (UV-Vis, RI, DAD detector), UPLC (UV-Vis, PDA, detector), GC (FID), UV-Vis spectrophotometry, AAS, FTIR, ICP-MS, potentiometry, volumetric titrations.
				Microbiological tests	Sterility test, microbial limit tests, bacterial endotoxins test (LAL), preservative efficacy test, microbial assay of antibiotics	Sterility test, microbial limit tests, bacterial endotoxins test (LAL), preservative efficacy test, microbial assay of antibiotics
				Type of analysis	*Finished products*	*Active pharmaceutical ingredients*

Stabicon Life Sciences Pvt Ltd Plot No. 28, Bommasandra Industrial Area (Sub-layout), 4th Phase Jigani Hobli, Anekal Taluk Bangalore 560 100, India Tel. +9180 27839259/60 e-mail: vijay.ranka@stabicon.com	10-12.9.2013	Compliant with WHO recommended standards	9.12.2013	Physical/Chemical analysis	pH, loss on drying, water content (Karl Fischer), friability, disintegration, dissolution, density, tablet hardness, uniformity of dosage units (mass, content)	pH, loss on drying, water content (Karl Fischer), heavy metals, limit tests
				Identification	TLC, HPLC (UV-VIS, DAD, RI), GC (FID), UV-VIS spectrophotometry, basic tests	TLC, HPLC (UV-VIS, DAD, RI), GC (FID), UV-VIS spectrophotometry, basic tests
				Assay, impurities and related substances	HPLC (UV-VIS, DAD, RI detection), GC (FID), TLC, UV-VIS spectrophotometry, volumetric titrations Determination of related substances/impurities, degradation products and residual solvents	HPLC (UV-VIS, DAD, RI detection), GC (FID), TLC, UV-VIS spectrophotometry, volumetric titrations Determination of related substances/impurities, degradation products
				Microbiological tests	Microbial limit tests, preservative efficacy test, microbial assay of antibiotics	Microbial limit tests, preservative efficacy test, microbial assay of antibiotics
				Stability studies	ICH conditions	ICH conditions
				Type of analysis	*Finished products*	*Active pharmaceutical ingredients*
Vimta Labs Limited Life Sciences Facility Plot No.5, S.P.Biotech Park Genome Valley Hyderabad 500078, India Tel. +91 40 3984 84 84 (Extn: 2101)	21-23.8.2013	Compliant with WHO recommended standards	17.7.2008	Physical/Chemical analysis	pH, loss on drying, water content, friability, disintegration, dissolution, density, tablet hardness, viscosity, dimensions, uniformity of dosage units (mass, content), limit tests	pH, loss on drying, water content, density, melting point, distilling range, refractometry, acid insoluble ash, acid value, iodine value, nitrogen, limit tests, neutralizing capacity
				Identification	FTIR, TLC, HPLC (UV-VIS, PDA, RI, fluorescence detection), UV-VIS spectrophotometry, basic tests	FTIR, TLC, HPLC (UV-VIS, PDA, RI, fluorescence detection), UV-VIS spectrophotometry, basic tests
				Assay, impurities and related substances	HPLC (UV-VIS, PDA, RI, fluorescence detection), GC (HRGC-MS, GC-MS), UV-VIS	HPLC (UV-VIS, DAD, RI, fluorescence detection), GC (HRGC-MS, GC-MS), UV-VIS

Fax: +91 40 3984 77 76 e-mail: anu@vimta.com					spectrophotometry, FTIR, polarimetry, AAS, ICP-MS, flame photometry, volumetric titrations	spectrophotometry, FTIR, polarimetry, AAS, ICP-MS, flame photometry, volumetric titrations
				Microbiological tests	Sterility test, microbial purity, bacterial endotoxins test (LAL), antimicrobial effectiveness	Sterility test, microbial purity, bacterial endotoxins test (LAL), antimicrobial effectiveness
				Stability studies	WHO conditions	WHO conditions
				Type of analysis	*Finished products*	*Active pharmaceutical ingredients*
Indian Pharmacopoiea Commission - Indian Pharmacopoeial Laboratory, Ministry of Health & Family Welfare, Sector 23, Raj Nagar, Ghaziabad, Uttar Pradesh, 201002, India Tel.: +91 120 2783392 e-mail: ipclab@vsnl.net	9-11.10.2014	Compliant with WHO recommended standards		Physical/Chemical analysis	pH, loss on drying, water content, density, friability, dissolution, uniformity of dosage units (mass, content)	pH, loss on drying, water content, density, melting point, thermal analysis (DSC) and optical rotation
				Identification	IR, HPLC (UV-VIS detection), UV-VIS spectrophotometry, LC-MS, NMR, AAS, CHNSO analysis	FTIR, HPLC (UV-VIS detection), UV-VIS spectrophotometry, NMR, AAS, CHNSO analysis
				Assay, impurities and related substances	HPLC (UV-VIS detection), GC, GC-MS, AA, UV-VIS spectrophotometry, volumetric titrations, polarimetry Determination of related substances/impurities and degradation products	HPLC (UV-VIS detection), GC. GC-MS, AA, UV-VIS spectrophotometry, volumetric titrations, polarimetry Determination of related substances/impurities and degradation products
				Microbiological tests	Sterility test, microbial limit tests, bacterial endotoxins test (LAL), preservative efficacy test, microbial assay of antibiotics	Sterility test, microbial limit tests, bacterial endotoxins test (LAL), preservative efficacy test, microbial assay of antibiotics
				Type of analysis	*Finished products*	*Active pharmaceutical ingredients*
Health Concepts International Ltd	7-8.3.2016	Compliant with WHO	14.7.2016	Physical/Chemical analysis	pH, dissolution, uniformity of dosage units.	pH

113 Thailand Science Park, Paholyothin Rd., Klong 1, Klong Luang, Pathumthani Thailand 12120 **Email:** lester.chinery@conceptfoundation.org **Tel.:** +66 2564 8009/11 **Fax:** +66 2564 8012		recommended standards		Identification	HPLC, UV-VIS Spectrophotometer.	HPLC, UV-VIS Spectrophotometer.
				Assay, impurities and related substances	HPLC (UV-VIS, DAD detection), UV-VIS spectrophotometer, determination of related substances and impurities by comparison with reference standards.	HPLC (UV-VIS, DAD detection), UV-VIS Spectrophotometer, Determination of related substances and impurities by comparison with reference standards.
				Type of analysis	*Finished products*	*Active pharmaceutical ingredients*
National Quality Control Laboratory for Drugs and Foods (NQCLDF) Building 1, Third Floor of PPPOMN, Jalan Percetakan Negara 23, Jakarta Pusat, 10560 Indonesia Tel: +62 21 4245075 ext. 1303 Fax: +62 21 4201427 e-mail: produkterapetik@yahoo.co.id	18-20.2.2019	Compliant with WHO recommended standards	10.12.2019	Physical/Chemical analysis	pH, water content (Karl Fischer), loss on drying, density, dissolution, uniformity of dosage units (mass, content).	n/a
				Identification	HPLC (UV-VIS, PDA, fluorescence detector), UV-VIS spectrophotometry, FTIR, and basic tests.	n/a
				Assay, impurities and related substances	HPLC (UV-VIS, Fluorescence detector), GC-FID, volumetric and potentiometric titrations.	n/a

				Type of analysis	*Finished products*	*Active pharmaceutical ingredients*
National Control Laboratory (NCL) IPH Campus, Directorate General Drug Administration (DGDA), Mohakhali, Dhaka-1212, Bangladesh Tel: +880-2-9861021, 9898315 Fax: +880-2-9880854 e-mail: mh_rashid67@yahoo.com dgda.gov@gmail.com	23-26.9.2019	Compliant with WHO recommended standards	16.03.2020	Physical/Chemical analysis	pH, Loss on Drying, Water Content, Disintegration Tests, Dissolution, Uniformity of Dosage Units	pH, Loss of drying, Water content.
				Identification	HPLC, TLC, UV-Vis Spectrophotometry , FTIR.	HPLC, TLC, UV-Vis Spectrophotometry, FTIR.
				Assay, impurities and related substances	HPLC, TLC, UVVis Spectrophotometry, FTIR, Titration	HPLC, TLC, UVVis Spectrophotometry, FTIR, Titration
				Microbiological tests	Sterility, Microbial Assay, Microbial Limit Test, Identification, Bacterial Endotoxin test (LAL)	Sterility Test, Microbial Assay, Microbial Limit Test, Identification, Bacterial Endotoxin test (LAL)
				Type of analysis	*Finished products*	*Active pharmaceutical ingredients*
Sipra Labs Limited 7-2-1813/5/A, Adjacent to post office, Industrial Estate, Sanath Nagar Hyderabad, 500018 Telangana India Tel: +91 40 23802001/ 2002/ 2003 /2004 +91 40 2380 2030	8-10.3.2019	Compliant with WHO recommended standards	07.09.2020	Physical/Chemical analysis	pH, Density, Viscosity, Conductivity, Water content (Karl Fischer), Loss on drying, Refractive Index, Specific optical rotation, Limit tests, Residual solvents, Dimensions, Uniformity of dosage units (Mass, Content), Dissolution, Disintegration, Hardness, Friability, Nitrogen determination, Heavy metals, Osmolality, Particulate matter, Total organic carbon, Appearance, Extractable volume, Particle size, Re-dispersibility (Reconstitution time)	pH, Solubility, Water content, Melting point, Refractometry, Loss on drying, Limit tests, X- ray diffractometry, Thermal analysis (DSC, TGA), Optical rotation, Conductivity, Density, Specific gravity, Viscosity, Osmolarity, Heavy metals, Sulphated ash, Acid insoluble ash, Residual solvents, Nitrogen value, Osmolality, Particulate matter, Appearance, Clarity and Degree of opalescence of liquids, Degree of coloration of liquids, Distilling range, Acid value, Ester value, Hydroxyl value, Iodine value, Peroxide value, Saponification value, Total organic carbon, Particle size, Freezing point, Drop point, Boiling point,

Fax: +91 40 23802005 e-mail: sipra@sipralabs.com						Unsaponifiable matter, Organic volatile impurities, ICP-MS, AA.
				Identification	IR, HPLC (UV-Visible, PDA, RI detection, Electro chemical), TLC, AA Spectrophotometry, Basic tests, GC (FID, TCD), UV-Vis Spectrophotometry.	IR, HPLC (UV-Visible, PDA, RI detection, Electro chemical), TLC, AA Spectrophotometry, Basic tests, GC (FID, TCD), UV-Vis Spectrophotometry, Chemical reaction, FT-IR, GC/MS, LC/MS, CHNS Analysis.
				Assay, impurities and related substances	HPLC (UV-VIS, PDA, RI detection), GC, UV, AA, FTIR spectrophotometry, Volumetric titrations, Potentiometric titration.	HPLC (UV-VIS, RI detection), GC, UV, AA, FTIR spectrophotometry, Volumetric titrations, Potentiometric titration.
				Stability testing	ICH Conditions	ICH Conditions
				Microbiological tests	Sterility test, Identification, Microbial limit tests, Microbial purity, Bacterial endotoxins test (LAL), Microbial assay, Preservative effectiveness test, Pyrogens.	Sterility test, Identification, Microbial limit tests, Microbial purity, Bacterial endotoxins test (LAL), Microbial assay, Preservative effectiveness test, Pyrogens.

WHO European Region

				Type of analysis	*Finished products*	*Active pharmaceutical ingredients*
Agency for Medicinal Products and Medical Devices (HALMED), Official Medicines Control Laboratory (OMCL), Ksaverska cesta 4, 10000 Zagreb, Croatia **Email:** rajka.truban@halmed.hr **Tel.:** +3851 4884 202	20-22 July 2015	Compliant with WHO recommended standards	16.06.2016	Physical/Chemical analysis	Appearance, clarity and degree of opalescence of liquids, degree of coloration of liquids, test for extractable volume of parenteral solution, potentiometric determination of pH, conductivity, refractive index, relative density, loss on drying, loss on drying (vacuum), determination of nitrogen by sulphuric acid, optical rotation, viscosity, water content: semi-micro determination, water content: micro determination, particulate contamination: visible particles, optical rotation, osmolality, Disintegration (tablets,	Appearance, clarity and degree of opalescence of liquids, degree of coloration of liquids, test for extractable volume of parenteral solution, potentiometric determination of pH, conductivity, refractive index, relative density, loss on drying, loss on drying (vacuum), determination of nitrogen by sulphuric acid, optical rotation, viscosity, water content (semi-micro determination), water content (micro determination), particulate contamination (visible particles), optical rotation, osmolality.

					capsules, suppositories, pessaries), Dissolution, Hardness (resistance to crushing), Uniformity of Dosage Units.	
				Identification	TLC, GC, UV-Vis, FTIR, NIR	TLC, GC, UV-Vis, FTIR, NIR
				Assay, impurities and related substances	HPLC, TLC (semiquantitative), GC, UV-Vis, Optical rotation.	HPLC, TLC (semiquantitative), GC, UV-Vis, Optical rotation.
				Microbiological tests	Sterility, microbial purity, bacterial endotoxins test (LAL), pyrogens.	Sterility, microbial purity, bacterial endotoxins test (LAL), pyrogens.
				Type of analysis	*Finished products*	*Active pharmaceutical ingredients*
Central Laboratory for Quality Control of Medicines and Medical Products, SE **State Drug Administration of Ukraine** 10G Kudryavskaya street Kiev 04053 Ukraine Tel/Fax: +380 44 272 5498, +380 44 272 5798 e-mail: CL@statelab.kiev.ua	10- 11.5.2016	Compliant with WHO recommended standards	16.4.2010	Physical/Chemical analysis	pH, density, refractometry, viscosity, water content, limit tests, disintegration, dissolution, uniformity of dosage units (mass, content), friability, dimensions	pH, refractometry, viscosity, loss on drying, water content, heavy metals, acid value, iodine value, limit tests, acid neutralizing capacity, distilling range, nitrogen determination
				Identification	HPLC (UV-Vis, RI detection), GC (FID), TLC, UV-VIS spectrophotometry, FTIR, basic tests	HPLC (UV-Vis, RI detection), GC (FID), TLC, UV-VIS spectrophotometry, FTIR, basic tests
				Assay, impurities and related substances	HPLC (UV-Vis, RI detection), GC (FID), UV-Vis spectrophotometry, AAS, FTIR, volumetric titrations	HPLC (UV-Vis, RI detection), GC (FID), UV-Vis spectrophotometry, AAS, FTIR, volumetric titrations
				Microbiological tests	Sterility test, microbial limit tests, bacterial endotoxins test (LAL), microbial assay of antibiotics	Sterility test, microbial limit tests, bacterial endotoxins test (LAL), microbial assay of antibiotics
				Type of analysis	*Finished products*	*Active pharmaceutical ingredients*
Centre Humanitaire des Métiers de la Pharmacie (CHMP) 4, voie militaire des Gravanches	26-27.9.2013	Compliant with WHO recommended standards	28.10.2008	Physical/Chemical analysis	pH, density, disintegration, dissolution, uniformity of dosage units (mass, content), friability, dimensions, limit tests	pH, density, acid value, iodine value, limit tests, neutralizing capacity, heavy metals

F 63100 Clermont-Ferrand France Tel: +33 4 73 98 24 70 Fax: +33 4 73 98 24 81 e-mail: contact@chmp.org, a.ba@chmp.org				Identification	FTIR, TLC, HPLC, spectrophotometry, basic tests	FTIR, TLC, HPLC, spectrophotometry, basic tests
				Assay, impurities and related substances	HPLC (UV-Vis, PDA detection), UV spectrophotometry, FTIR, volumetric titrations	HPLC (UV-Vis, PDA detection), UV spectrophotometry, FTIR, volumetric titrations
				Type of analysis	*Finished products*	*Active pharmaceutical ingredients*
INFARMED I.P.[2] Direcção da Comprovação da Qualidade (DCQ) Av. Brasil No 53 Edifício Tomé Pires 1749-004 Lisboa Portugal Tel: +35 1217987350 Fax: +35 1217987369 e-mail: mjoao.portela@infarmed.pt	March 2019 (Desk Review)	Compliant with WHO recommended standards	31.8.2011	Physical/Chemical analysis	pH, density, optical rotation, viscosity, water content, conductivity, residual solvents, limit tests, tablet hardness, friability, disintegration, dissolution, uniformity of dosage units (mass, content)	pH, optical rotation, viscosity, melting point, loss on drying, water content, osmolarity, conductivity, residual solvents, sulphated ash, limit tests
				Identification	HPLC (UV-VIS, DAD, fluorescence, RI, ELS, MS, electrochemical detection), GC (FID, ECD, FPD, NPD, TCD, MS detection), capillary electrophoresis, TLC, UV-VIS spectrophotometry, FTIR, basic tests	HPLC (UV-VIS, DAD, fluorescence, RI, ELS, MS, electrochemical detection), GC (FID, ECD, FPD, NPD, TCD, MS detection), capillary electrophoresis, TLC, UV-VIS spectrophotometry, FTIR, basic tests
				Assay, impurities and related substances	HPLC (UV-VIS, DAD, fluorescence, RI, ELS, MS, electrochemical detection), GC (FID, ECD, FPD, NPD, TCD, MS detection), TLC, UV-VIS spectrophotometry, flame photometry, AAS, FTIR,	HPLC (UV-VIS, DAD, fluorescence, RI, ELS, MS, electrochemical detection), GC (FID, ECD, FPD, NPD, TCD, MS detection), TLC, UV-VIS spectrophotometry, flame photometry, AAS, FTIR,

[2] The laboratory has been included on the list based on the WHO assessment, which utilized the results of audit performed by the European Directorate for the Quality of Medicines & HealthCare (EDQM). Therefore no WHO Public Inspection Report is published in this case.

					potentiometry, volumetric titrations, gravimetry	potentiometry, volumetric titrations, gravimetry
				Microbiological tests	Sterility test, microbial limit tests, bacterial endotoxins test (LAL), microbial assay of antibiotics	Sterility test, microbial limit tests, bacterial endotoxins test (LAL), microbial assay of antibiotics
				Type of analysis	*Finished products*	*Active pharmaceutical ingredients*
InphA GmbH - Institute for Pharmaceutical and Applied Analytics[3] Emil-Sommer-Strasse 7 D-28329 Bremen Germany Tel: +49 421 4361-111 Fax: +49 421 4361-189 e-mail: konrad.horn@inpha.de	4-6.6.2013 EDQM audit	Compliant with WHO recommended standards	1.4.2014	Physical/Chemical analysis	pH, density, refractive index, optical rotation, osmolality, water content, residual solvents, limit tests, tablet hardness, friability, disintegration, dissolution, uniformity of dosage units (mass, content)	pH, density, refractive index, optical rotation, melting point, loss on drying, water content, residual solvents, sulphated ash, limit tests
				Identification	HPLC (DAD; UV-Vis, RI, conductivity, fluorescence, ELS, MS, charged aerosol, chemiluminescence, pulsed amperometric detection), GC (FID,MS), capillary electrophoresis, TLC, UV-Vis spectrophotometry, FTIR, AAS, AES, ICP/OES, electrophoresis, isoelectric focussing, basic tests	HPLC (DAD; UV-Vis, RI, conductivity, fluorescence, ELS, MS, charged aerosol, chemiluminescence, pulsed amperometric detection), GC (FID,MS), capillary electrophoresis, TLC, UV-Vis spectrophotometry, FTIR, AAS, AES, ICP/OES, electrophoresis, isoelectric focussing, basic tests
				Assay, impurities and related substances	HPLC (DAD; UV-Vis, RI, conductivity, fluorescence, ELS, MS, charged aerosol, chemiluminescence, pulsed amperometric detection), GC (FID,MS), capillary electrophoresis, TLC, UV-Vis spectrophotometry, FTIR, AAS, AES, ICP/OES, electrophoresis, isoelectric focussing, volumetric	HPLC (DAD; UV-Vis, RI, conductivity, fluorescence, ELS, MS, charged aerosol, chemiluminescence, pulsed amperometric detection), GC (FID,MS), capillary electrophoresis, TLC, UV-Vis spectrophotometry, FTIR, AAS, AES, ICP/OES, electrophoresis, isoelectric focussing, volumetric

[3] The laboratory has been included on the list based on the WHO assessment, which utilized the results of audit performed by the European Directorate for the Quality of Medicines & HealthCare (EDQM). Therefore no WHO Public Inspection Report is published in this case.

					titration (visual, potentiometric), gravimetry	titration (visual, potentiometric), gravimetry
				Microbiological tests	Sterility test, microbial limit tests, bacterial endotoxins (LAL)	Sterility test, microbial limit tests, bacterial endotoxins (LAL)
				Type of analysis	*Finished products*	*Active pharmaceutical ingredients*
Intertek (Schweiz) AG[4] Mattenstrasse 22 Biopark Rosenthal, Building 1047 CH-4058 Basel Switzerland Tel: +41 61 686 48 00 Fax: +41 61 686 48 99 e-mail: mara.guzzetti@intertek.com	2-3.5.2013 US FDA inspection; 9.4.2013 Swissmedic, Switzerland inspection	Compliant with WHO recommended standards	27.10.2014	Physical/Chemical analysis	pH, solubility, particulate matter in injections, uniformity of dosage units (mass, content)	pH, solubility
				Identification	HPLC (UV-Vis, DAD, fluorescence, MS, electrochemical detection), GC (FID, ECD, MS detection), mass spectrometry, NMR, FTIR, residual solvents, determination of degradation products, forensic investigations, IR- and Raman-imaging	HPLC (UV-Vis, DAD, fluorescence, MS, electrochemical detection), GC (FID, ECD, MS detection), mass spectrometry, NMR, FTIR, residual solvents, determination of degradation products, forensic investigations, IR- and Raman-imaging
				Assay, impurities and related substances	HPLC (UV-Vis, DAD, fluorescence, MS, electrochemical detection), GC (FID, ECD, MS detection), mass spectrometry, NMR, FTIR	HPLC (UV-Vis, DAD, fluorescence, MS, electrochemical detection), GC (FID, ECD, MS detection), mass spectrometry, NMR, FTIR
				Type of analysis	*Finished products*	*Active pharmaceutical ingredients*
Laboratorios Basi - Industria Farmaceutica, S.A.,	14.10.2019 (Desk Review)	Compliant with WHO recommended standards	12.6.2013	Physical/Chemical analysis	pH, density, refractive index, optical rotation, viscosity, loss on drying, water content, conductivity, total organic carbon, tablet hardness, dimensions,	pH, density, refractive index, optical rotation, viscosity, melting point, loss on drying, water content, conductivity, sulphated ash, acid value, ester value,

[4] The laboratory has been included on the list based on the WHO assessment, which utilized the results of inspections performed by the US FDA and Swissmedic, Switzerland. Therefore no WHO Public Inspection Report is published in this case.

Quality Control Unit[5] Parque Industrial de Mortágua Lote 15 3450-232 Mortágua Portugal Tel: +351 231 920 250 e-mail: basi@basi.pt					friability, disintegration, dissolution, uniformity of dosage units (mass, content), particulate matter test	hydroxyl value iodine value, peroxide value, saponification value, total organic carbon, particulate matter test
				Identification	HPLC (UV-Vis, RI, DAD), GC (FID, µECD), TLC, UV-Vis spectrophotometry, FTIR/NIR	HPLC (UV-Vis, RI, DAD), GC (FID, µECD), TLC, UV-Vis spectrophotometry, FTIR/NIR
				Assay, impurities and related substances	HPLC (UV-Vis, RI, DAD), GC (FID, µECD), UV-Vis spectrophotometry, FTIR/NIR, potentiometry, volumetric titrations, gravimetry	HPLC (UV-Vis, RI, DAD), GC (FID, µECD), UV-Vis spectrophotometry, FTIR/NIR, potentiometry, volumetric titrations, gravimetry
				Microbiological tests	Sterility test, microbial limit tests, bacterial endotoxins test (LAL), microbial assay of antibiotics, preservative efficacy test	Sterility test, microbial limit tests, bacterial endotoxins test (LAL), microbial assay of antibiotics, preservative efficacy test
				Stability studies	ICH conditions	ICH conditions
				Type of analysis	*Finished products*	*Active pharmaceutical ingredients*
Laboratory of chemical-pharmaceutical preparations No. 2 and Laboratory of antibiotics of the Federal State Budgetary Institution «Scientific Centre for Expert Evaluation of Medicinal Products», Ministry of Health of the Russian Federation Laboratories for Control and Coordination; Biotechnological Products; Nano-medicines, Cell and	16-20.5.2016	Compliant with WHO recommended standards	21.5.2012	Physical/Chemical analysis	pH, density, refractive index, optical rotation, water content, residual solvents, limit tests, disintegration, dissolution, uniformity of dosage units (mass, content)	pH, refractometry, refractive index, optical rotation, viscosity, melting point, loss on drying, water content, heavy metals, residual solvents and limit tests
				Identification	HPLC (UV-Vis, PDA, RI, detection), GC (FID, ECD, TCD), TLC, UV-VIS spectrophotometry, IR, basic tests	HPLC (UV-Vis, PDA, RI, detection), GC (FID, ECD, TCD), TLC, UV-VIS spectrophotometry, IR, basic tests
				Assay, impurities and related substances	HPLC (UV-Vis, PDA, RI detection), GC (FID, ECD, TCD),	HPLC (UV-Vis, PDA, RI, detection), LC/MS, GC (FID, ECD, TCD), UV-Vis

[5] The laboratory has been included on the list based on the WHO assessment, which utilized the results of inspection performed by the INFARMED, Portugal.

Gene Therapy Products; Vitamins, Hormones and Synthetic Analogues and Microbiology Laboratory Schukinskaya street, 6-1 Moscow 123182 Russian Federation Tel: +7 495 6254342 Fax: +7 4956254350 e-mail: gladkaja@expmed.ru					UV-Vis spectrophotometry,FTIR, volumetric titrations	spectrophotometry, FTIR, volumetric titrations
				Microbiological tests	Laboratory of antibiotics - Sterility testing and Microbial assay and limit tests. Microbiology Laboratory - Microbial limit tests	Laboratory of antibiotics - Sterility testing and microbial limit tests. Microbiology Laboratory - Microbial limit tests
				Type of analysis	*Finished products*	*Active pharmaceutical ingredients*
Laboratory of Pharmaceutical Analysis **State Expert Centre** **Ministry of Health of Ukraine** 14, Antona Tsedika St. 03680 Kiev Ukraine Tel: +38 44 536 1338, +38 50 959 7924 Fax: + 38 44 536 1344 e-mail: sashavbfc@yandex.ru	11-14.2.2020	Compliant with WHO recommended standards	16.4.2010	Physical/Chemical analysis	pH, density, refractometry, optical rotation, viscosity, conductivity, water content, acid value, iodine value, peroxide value, ester value, hydroxyl value, saponification value, nitrogen determination, heavy metals, loss on drying, limit tests, disintegration, dissolution, uniformity of dosage units (mass, content), friability, tablet hardness, dimensions	pH, density, refractometry, optical rotation, viscosity, conductivity, melting point, water content, acid value, iodine value, peroxide value, ester value, hydroxyl value, saponification value, acid neutralizing capacity, nitrogen determination, heavy metals, loss on drying, limit tests
				Identification	HPLC (UV-Vis, DAD, fluorescense, RI detection), GC, TLC, UV-Vis and NIR spectrophotometry, AAS, basic tests	HPLC (UV-Vis, DAD, fluorescense, RI detection), GC, TLC, UV-Vis and NIR spectrophotometry, AAS, basic tests
				Assay, impurities and related substances	HPLC (UV-Vis, DAD, fluorescense, RI detection), GC,	HPLC (UV-Vis, DAD, fluorescense, RI detection), GC,

					UV-Vis spectrophotometry, AAS, volumetric titrations	UV-Vis spectrophotometry, AAS, volumetric titrations
				Microbiological tests	Sterility test, microbial limit tests, bacterial endotoxins test (LAL), microbial assay of antibiotics	Sterility test, microbial limit tests, bacterial endotoxins test (LAL), microbial assay of antibiotics
				Type of analysis	*Finished products*	*Active pharmaceutical ingredients*
Medicines Control Laboratory (SCM-DGO) Stevinstraat 137 1000 Brussels, Belgium Tel.: +32 228 54250 e-mail: dgo_scm@apb.be	10.12.2019 (Desk Review)	Compliant with WHO recommended standards	30.10.2015	Physical/Chemical analysis	pH, water content, loss on drying, friability, tablet hardness melting point, optical rotation, refractive index, disintegration time, dissolution, density, viscosity, osmolality, conductivity, uniformity of dosage units (mass, content), uniformity of delivered dose of (non)pressurized MDI, residual solvents, limit tests.	pH, water content, loss on drying, , refractive index, optical rotation, viscosity, melting point, residue on ignition, conductivity, heavy metals, residual solvents, limit tests, acid value, iodine value, peroxide value, ester value, hydroxyl value, saponification value
				Identification	(U)HPLC (UV-Vis, DAD, RI, Fluorescence, ELSD, MS), GC(FID), (HP)TLC, UV-Vis, FTIR, AAS/AES, basic tests	(U)HPLC (UV-Vis, DAD, RI, Fluorescence, ELSD, MS), GC (FID), (HP)TLC, UV-Vis, FTIR, AAS/AES, basic tests
				Assay, impurities and related substances	(U)HPLC (UV-Vis, DAD, RI, Fluorescence, ELSD, MS), GC (FID), (HP)TLC, UV-Vis, FTIR, AAS/AES, titrations, determination of related substances/impurities, degradation products and residual solvents, nitrogen determination	(U)HPLC (UV-Vis, DAD, RI, Fluorescence, ELSD, MS), GC (FID), (HP)TLC, UV-Vis, FTIR, AAS/AES, titrations, determination of related substances/impurities, degradation products and residual solvents, oxygen flask combustion, nitrogen determination
				Microbiological tests	Sterility test, microbiological, examination of non-sterile products, bacterial endotoxins test (LAL), microbial assay of antibiotics, ELISA, preservative challenge test	Sterility test, microbiological examination of non-sterile products, bacterial endotoxins test (LAL), microbial assay of antibiotics, ELISA, preservative challenge test

				Type of analysis	*Finished products*	*Active pharmaceutical ingredients*
PROXY Laboratories B.V. Archimedesweg 25 2333 CM Leiden The Netherlands Tel: +31 71 5244080 (general) Fax: +31 71 5284213 e-mail: info@proxylab.nl	7-9.1.2014	Compliant with WHO recommended standards	31.8.2011	Physical/Chemical analysis	pH, density, refractive index, optical rotation, viscosity, water content, conductivity, residual solvents, limit tests, tablet hardness, friability, disintegration, dissolution, uniformity of dosage units (mass, content)	pH, refractive index, optical rotation, viscosity, melting point, distilling range, loss on drying, water content, osmolarity, conductivity, heavy metals, residual solvents, limit tests, acid value, iodine value, peroxide value, ester value, hydroxyl value, saponification value, sulphated ash, residue on ignition, total organic carbon, solubility
				Identification	HPLC (UV-VIS, PDA, RI, conductivity detection), LC/MS, GC (FID, MS), TLC, UV-VIS spectrophotometry, IR, basic tests	HPLC (UV-VIS, PDA, RI, conductivity detection), LC/MS, GC (FID, MS), TLC, UV-VIS spectrophotometry, IR, basic tests
				Assay, impurities and related substances	HPLC (UV-VIS, PDA, RI, conductivity detection), LC/MS, GC (FID, MS), TLC, UV-VIS spectrophotometry, AAS, FTIR, volumetric titrations	HPLC (UV-VIS, PDA, RI, conductivity detection), LC/MS, GC (FID, MS), TLC, UV-VIS spectrophotometry, AAS, FTIR, volumetric titrations
				Microbiological tests	Sterility test, microbial limit tests, bacterial endotoxins test (LAL), microbial assay of antibiotics, preservative efficacy test	Sterility test, microbial limit tests, bacterial endotoxins test (LAL), microbial assay of antibiotics
				Type of analysis	*Finished products*	*Active pharmaceutical ingredients*
Republican Control and Analytical Laboratory of the Centre for Expertise and Testing in Health Care **Ministry of Health Care of the Republic of Belarus** Building 15 Dzerzhinsky Avenue 83	5-7.12.2018	Compliant with WHO recommended standards	21.6.2012	Physical/Chemical analysis	pH, density, refractive index, optical rotation, water content, conductivity, residual solvents, limit tests, friability, disintegration, dissolution, uniformity of dosage units (mass, content)	pH, refractometry, refractive index, optical rotation, viscosity, melting point, loss on drying, water content, heavy metals, residual solvents and limit tests
				Identification	HPLC (UV-Vis, DAD, RI, detection), GC, TLC, UV-VIS spectrophotometry, IR, basic tests	HPLC (UV-Vis, DAD, RI, detection), GC, TLC, UV-VIS spectrophotometry, IR, basic tests

220140 Minsk Belarus Tel: +375 17 254-95-63 Tel/Fax: +375 17 254-95-74 e-mail: rkal@rceth.by maisak@rceth.by				Assay, impurities and related substances	HPLC (UV-Vis, DAD, RI detection), GC, UV-Vis spectrophotometry, volumetric titrations	HPLC (UV-Vis, DAD, RI, detection), GC , UV-Vis spectrophotometry, volumetric titrations
				Type of analysis	*Finished products*	*Active pharmaceutical ingredients*
Rostov-on-Don Branch of Federal State Budgetary Institution "Information and Methodological Center for Expertise, Stocktaking and Analysis of Circulation of Medical products" of the Federal Service on Surveillance in Healthcare 71B/63B Chentsova Street City of Rostov-on-Don Rostov region 344037 Russian Federation Tel: +7 863 2806914; +7 863 2806911 e-mail: r2806914@yandex.ru and rostov-na-donu@fgu.ru	19-21.11.2013	Compliant with WHO recommended standards	11.3.2014	Physical/Chemical analysis	pH, density, refractive index, optical rotation, water content, loss on drying, residual solvents, limit tests, disintegration, dissolution, uniformity of dosage units (mass, content)	pH, density, refractive index, optical rotation, water content, loss on drying, residual solvents, limit tests
				Identification	HPLC (UV-Vis, RI, DAD detection), GC (FID, TCD), TLC, UV-VIS spectrophotometry, IR, basic tests	HPLC (UV-Vis, RI, DAD detection), GC (FID, TCD), TLC, UV-VIS spectrophotometry, IR, basic tests
				Assay, impurities and related substances	HPLC (UV-Vis, RI, DAD detection), GC (FID, TCD), UV-Vis spectrophotometry, volumetric titrations	HPLC (UV-Vis, RI, DAD detection), GC (FID, TCD), UV-Vis spectrophotometry, volumetric titrations
				Microbiological tests	Sterility test, microbial limit tests, bacterial endotoxins test (LAL), microbial assay of antibiotics	Sterility test, microbial limit tests, bacterial endotoxins test (LAL)

				Type of analysis	*Finished products*	*Active pharmaceutical ingredients*
SGS Lab Simon S. A. Vieux Chemin du Poète 10 B-1301 Wavre Belgium Tel: +32 10 421111; +32 10 42176; +32 10 421186 Fax: +32 10 421100 e-mail: be.lifeqc@sgs.com wim.vanimmerseel@sgs.com	17-20.9.2019	Compliant with WHO recommended standards	31.5.2011	Physical/Chemical analysis	pH, density, refractive index, optical rotation, viscosity, water content, conductivity, residual solvents, limit tests, tablet hardness, friability, disintegration, dissolution, uniformity of dosage units (mass, content), particulate contamination (visible and sub-visible particles).	pH, refractometry, refractive index, optical rotation, viscosity, melting point, distilling range, loss on drying, water content, osmolarity, conductivity, heavy metals, residual solvents, limit tests, acid value, iodine value, peroxide value, ester value, hydroxyl value, saponification value.
				Identification	HPLC (UV-Vis, PDA, RI, conductivity detection), GC (FID, MS), TLC, UV-VIS spectrophotometry, IR, basic tests.	HPLC (UV-Vis, PDA, RI, conductivity, fluorescence detection), GC (FID, MS), TLC, UV-VIS spectrophotometry, IR, basic tests.
				Assay, impurities and related substances	HPLC (UV-Vis, PDA, RI, conductivity detection), GC (FID), UV-Vis spectrophotometry, AAS, FTIR, volumetric titrations.	HPLC (UV-Vis, PDA, RI, conductivity detection), GC (FID), UV-Vis spectrophotometry, AAS, FTIR, volumetric titrations.
				Microbiological tests	Sterility test, microbial limit tests, bacterial endotoxins test (LAL), microbial assay of antibiotics.	Sterility test, microbial limit tests, bacterial endotoxins test (LAL), microbial assay of antibiotics.
				Stability studies	ICH conditions (long term and accelerated conditions) Ongoing Stability Studies).	n/a
				Type of analysis	*Finished products*	*Active pharmaceutical ingredients*
Synergy Health Utrecht B.V., a STERIS Company Reactorweg 47A 3542 AD Utrecht	18.12.2012 and 4.9.2013 Dutch Healthcare	Compliant with WHO recommended standards	23.9.2014	Physical/Chemical analysis	pH, density, refractive index, optical rotation, viscosity, water content, loss on drying, conductivity, neutralizing capacity, tablet hardness, dimensions, friability, disintegration, dissolution, uniformity of dosage	pH, density, refractive index, optical rotation, viscosity, water content, loss on drying, conductivity, particle size, melting point, freezing point, drop point, boiling point, distilling range

The Netherlands Tel: +31 30 2843010 Fax: +31 30 2843011 e-mail: Utrecht@steris.com	Inspectorate inspections				units (mass, content), particulate matter test (visible and sub-visible)	
				Identification	FTIR, (HP)TLC, (U)HPLC (UV-VIS, PDA, RI detection), GC (FID detection), UV-VIS spectrophotometry, fluorimetry, AAS/AES, basic tests	FTIR, (HP)TLC, (U)HPLC (UV-VIS, PDA, RI detection), GC (FID detection), UV-VIS spectrophotometry, fluorimetry, AAS/AES, basic tests
				Assay, impurities and related substances	(U)HPLC (UV-VIS, PDA, RI detection), GC (FID detection), (HP)TLC, UV-VIS spectrophotometry, fluorimetry, polarimetry, AAS/AES, gravimetric analysis, volumetric titrations, potentiometry, nitrogen determination, residual solvents, ethylene oxide residual analysis	(U)HPLC (UV-VIS, PDA, RI detection), GC (FID detection), (HP)TLC, UV-VIS spectrophotometry, fluorimetry, polarimetry, AAS/AES, gravimetric analysis, volumetric titrations, potentiometry, nitrogen determination, residual solvents, ethylene oxide residual analysis, oxygen flask combustion, composition of fatty acids
				Microbiological tests	Sterility test, microbial limit tests, identification of microorganisms, preservative efficacy test, bacterial endotoxins test (LAL), microbial assay of antibiotics	Sterility test, microbial limit tests, identification of microorganisms, bacterial endotoxins test (LAL), microbial assay of antibiotics
				Stability studies	ICH conditions	ICH conditions
				Type of analysis	*Finished products*	*Active pharmaceutical ingredients*
State Scientific Research Laboratory on Quality Control of Medicines (SSRL), OM Marzeyev Institute for Hygiene and Medical Ecology, National Academy of Medical Sciences of	12-14.06.2019	Compliant with WHO recommended standards	22.01.2016	Physical/Chemical analysis	Clarity and degree of opalescence of liquids, degree of coloration of liquids, pH, density, osmolality, refractometry, optical rotation, viscosity, conductivity, water content, acid value, iodine value, peroxide value, ester	pH, density, refractometry, optical rotation, viscosity, osmolality, conductivity, melting point, water content, acid value, iodine value, peroxide value, ester value, hydroxyl value, saponification value, unsaponifiable matter,

Ukraine, 50 Popudrenka str, Kiev, 02660, Ukraine Tel: + 38(044)559-57-11 Fax: + 38(044)559-57-00 e-mail: 3526309@ukr.net					value, hydroxyl value, saponification value, nitrogen determination, heavy metals, loss on drying, limit tests, disintegration, dissolution, uniformity of dosage units (mass, content), friability, tablet hardness, dimensions, particulate contamination (sub-visible/visible particles)	nitrogen determination, heavy metals, loss on drying, limit tests
				Identification	HPLC (DAD, RID,UV-Vis, FLD), GC (FID, ECD), TLC, UV-Vis Spectrophotometry, FTIR spectroscopy, basic tests	HPLC (DAD, RID,UV-Vis, FLD), GC (FID, ECD), TLC, UV-Vis Spectrophotometry, FTIR spectroscopy, basic tests
				Assay, impurities and related substances	HPLC (DAD, RID,UV-Vis, FLD), GC (Au/HS(FID, ECD)), UV-Vis Spectrophotometry, FTIR spectroscopy, Water determination, basic tests	HPLC (DAD, RID,UV-Vis, FLD),GC (Au/HS(FID, ECD)), UV-Vis Spectrophotometry, FTIR spectroscopy, Water determination , basic tests
				Type of analysis	*Finished products*	*Active pharmaceutical ingredients*
University of Liege, Faculty of Medicine, Department of Pharmacy, B36 Building, Tower Pharmacy, Level 2 Hospital district Hippocrate Avenue 15 4000 Liège Belgium Tel: + 32 4 366 3979 Fax: + 32 4 366 4317	June 2015 - Belgium Federal Agency for Medicines and Health Products (FAMHP) + 03.11.2016 (WHO PQT Desk Review)	Compliant with WHO recommended standards	22.12.2016	Physical/Chemical analysis	pH, density, optical rotation, refractive index, viscosity, water content, conductivity, residual solvents, limit tests, tablet hardness, friability, disintegration, dissolution, uniformity of dosage units (mass, content), tapped density, particles size, molarity.	pH, optical rotation, refractive index, viscosity, melting point, loss on drying, water content, osmolarity, conductivity, heavy metals, residual solvents, limit tests, acid value, iodine value, peroxide value, ester value, hydroxyl value, saponification value, tapped density, particle

e-mail: rmarini@ulg.ac.be						size, molarity.
				Identification	UV-Vis, PDA, refractive index , LCUV- ELSD-, UHPLC-UV-MS, MS, GC-FID, TLC, UV-VIS spectrophotometry, FT- IR spectroscopy, spectroscopy NIR, NMR , Raman spectroscopy, CEDAD, basic tests.	UV-Vis, PDA, refractive index , LC-UV-ELSD-, UHPLC-UV-MS, MS, GC-FID, TLC, UV-VIS spectrophotometry, FT- IR spectroscopy, spectroscopy NIR, NMR , Raman spectroscopy, CEDAD, basic tests.
				Assay, impurities and related substances	HPLC (UV-Vis, PDA), LC/MS, GC (FID,), UHPLC-UV-MS, LC-UVELSD, Spectrophotometry UV-Vis, AAS, FTIR, NIR, LC-RMN, CE-DAD.	HPLC (UV-Vis, PDA), LC/MS, GC (FID,), UHPLC-UV-MS, LC-UVELSD, Spectrophotometry UV-Vis, AAS, FTIR, NIR, LC-RMN, CE-DAD volumetric titrations.
				Stability Testing	Under ICH conditions.	Under ICH conditions.
				Type of analysis	*Finished products*	*Active pharmaceutical ingredients*
APTYS Pharmaservices Biopôle Clermont-Limagne F-63360 Saint Beauzire France	23 January 2018 (Desk Review)	Compliant with WHO recommended standards	26.7.2018	Physical/Chemical analysis	pH, density, water content (Karl Fisher), friability, disintegration, tablet hardness, dissolution , viscosity, dimensions, uniformity of dosage (mass, content), extractable volume, average volume.	pH, density, water content (Karl Fisher), loss on drying, viscosity, limit tests, solubility, conductivity.
				Identification	HPLC (UV-VIS detection, amperometric detection, RI), - DAD, FTIR, UV-VIS	HPLC (UV-VIS detection, amperometric detection, RI) - DAD, FTIR, UV-VIS

Tel: +33 473 670 670 Fax : +33 473 670 687 e-mail: contact@aptys-pharmaceuticals.com					spectrophotometry, TLC, chemical reaction (basic tests).	spectrophotometry, TLC, chemical reaction (basic tests).
				Assay, impurities and related substances	HPLC (UV-VIS detection, amperometric detection, RI), , UV-VIS spectrophotometry, volumetric titrations, Potentiometry.	HPLC (UV-VIS detection, amperometric detection, RI), DAD, UV-VIS spectrophotometry, volumetric titrations, Potentiometry.
				Stability testing	Under ICH conditions	Under ICH conditions
				Type of analysis	*Finished products*	*Active pharmaceutical ingredients*
Gimopharm 1, Chemin de Saulxier 91160 Longjumeau France Tel: +33 1 69 35 54 90 Fax: +33 1 69 85 31 18 e-mail: aurelie.bertheault@gimopharm.com contacts@gimopharm.com	23 January 2018 (Desk Review)	Compliant with WHO recommended standards	26.7.2018	Physical/Chemical analysis	pH, density, refractive index, optical rotation, osmolality, water content, residual solvents, limit tests, tablet hardness, friability, disintegration, dissolution, viscosity, uniformity of dosage units (mass, content), particle size (laser,) Differential scanning calorimetry, X-ray Diffraction.	pH, density, refractive index, optical rotation, osmolarity, water content, residual solvents, limit tests, particle size, Total Organic Carbon, conductivity, viscosity, heavy metals, Ash, sulfated ash, Differential scanning calorimetry, X-ray Diffraction.
				Identification	HPLC (UV-VIS, DAD, RI fluorescence detection), TLC, GC, UV-VIS spectrophotometry, IR, AAS, fluorimetry, MS, MS-MS.	HPLC (UV-VIS, DAD, RI, fluorescence detection), TLC, GC, UV-VIS spectrophotometry, IR, AAS, fluorimetry.
				Assay, impurities and related substances	GC-FID/ MS-MS HPLC-UV/ PDA/ MS-MS/ MS/Fluo/ RI / ELSD, UPLC-MS, Ionic, ICP/MS, AAS	GC- FID/ MS-MS HPLC-UV/ PDA/ MS-MS/ MS/ Fluo/ RI / ELSD, UPLC-MS, Ionic, ICP/MS, AAS Post column derivatization.
				Stability testing	ICH conditions	ICH Conditions
				Microbiological tests	Microbial limit tests, Bacterial endotoxins test (LAL); Challenge Test	Microbial limit tests, Bacterial endotoxins test (LAL)

				Type of analysis	*Finished products*	*Active pharmaceutical ingredients*
RSE on the REM «National Center for Expertise of Medicines and Medical Devices» of the Committee for Quality Control and Safety of Goods and Services of the Ministry of Health of the Republic of Kazakhstan The Testing Laboratory of Territorial Branch of the Republic State, 9A Bukhar Zhyrau Prospect, Karaganda City, Karaganda Region, Kazakhstan Tel: + 8 (7212) 41-31-68 Fax: + 8 (7212) 41-31-68 e-mail: karaganda@dari.kz	17-19.6.2019	Compliant with WHO recommended standards	16.03.2020	Physical/Chemical analysis	pH, Loss on drying, Water Content (Karl Fischer), Dissolution, Uniformity of Dosage units (Mass and content), Disintegration, Hardness.	pH, Loss on drying, Water Content (Karl Fischer), Sulphated Ash, Insoluble Ash, Residual Solvents.
				Identification	HPLC (UV, DAD), GC (TCD), UV-Vis Spectrophotometry, Basic Tests.	HPLC (UV, DAD), GC (TCD), UV-Vis Spectrophotometry, Basic Tests.
				Assay, impurities and related substances	HPLC (UV, DAD), GC (TCD), UV-Vis Spectrophotometry, Titrations	HPLC (UV, DAD), GC (TCD), UV-Vis Spectrophotometry, Titrations.
WHO Eastern Mediterranean Region						
				Type of analysis	*Finished products*	*Active pharmaceutical ingredients*
Laboratoire National de Contrôle des Médicaments - LNCM (Maroc)[6]	26.3-28.3.2018	Compliant with WHO	17.7.2008	Physical/Chemical analysis	pH, density, refractive index, viscosity, loss on drying, water	pH, density, refractive index, viscosity, loss on drying, melting

[6] The laboratory has been included on the list based on the WHO assessment, which utilized the results of audits performed by the European Directorate for the Quality of Medicines & HealthCare (EDQM). Therefore no WHO Public Inspection Report is published in this case.

Rue Lamfadel Charkaoui - Medinat Al Irfane Rabat 10 000 Maroc Postal address: BP 6202, Rabat - Instituts Rabat Maroc Tel: +212 537681930 Fax: +212 537772520 e-mail: d.lncm.dmp@sante.gov.ma		recommended standards			content, conductivity, disintegration, dissolution, uniformity of dosage units (mass, content), friability, tablet hardness	point, water content, conductivity, thermal analysis (DSC), X-ray diffractometry, osmolarity, heavy metals, sulphated ash
				Identification	HPLC (fluorescence, UV, UV-Vis, DAD, RI detection), GC (FID, MS), TLC, IR, UV-VIS spectrophotometry	HPLC (fluorescence, UV, UV-Vis, DAD, RI detection) GC (FID, MS), TLC, IR, UV-VIS spectrophotometry, chemical reaction
				Assay, impurities and related substances	HPLC (fluorescence, UV, UV-Vis, DAD, RI detection), GC (FID, MS), UV-VIS spectrophotometry, fluorimetry, volumetric titrations, polarimetry Determination of related substances/impurities, degradation products and residual solvents	HPLC(fluorescence, UV, UV-Vis, DAD, RI detection), GC (FID, MS), UV-VIS spectrophotometry, fluorimetry, volumetric titrations, polarimetry Determination of related substances/impurities, degradation products and residual solvents
				Type of analysis	*Finished products*	*Active pharmaceutical ingredients*
Food and Drugs Control Reference Laboratories (FDCRL), Food & Drugs Administration, Ministry of Health and Medical Education. No 31 Imam Khomeini Avenue, Tehran, 11136-15911, Islamic Republic of Iran Tel: +98 21 66496153 Fax:+982166404330 e-mail: FDCRL@fda.gov.ir or	21-23.09.2015	Compliant with WHO recommended standards	11.03.2016	Physical/Chemical analysis	pH, water content, loss on drying, friability, disintegration, tablet hardness, dissolution, viscosity, density, dimensions, uniformity of dosage unit (mass, content).	pH, Water content, loss on drying, refractive index, optical rotation, viscosity, melting point, heavy metals, sulphated ash, residual solvents, limit tests ,solubility, Conductivity, Organic Volatile Impurities (OVI).
				Identification	HPLC (UV-VIS detection, RI, fluorescence detection), GC-MS, IR, FTIR, UV-VIS spectrophotometry, TLC, chemical reaction (basic tests)	HPLC (UV-VIS detection, RI, fluorescence detection), GC-MS, IR, FTIR, UV-VIS spectrophotometry, TLC, chemical reaction (basic tests)
				Assay, impurities and related substances	HPLC (UV-VIS detection, RI, fluorescence detection), UV-VIS spectrophotometry, GC (FID,	HPLC (UV-VIS detection, RI, fluorescence detection), UV-VIS spectrophotometry, GC (FID,

h.rastegar@fda.gov.ir					TCD), AAS, ICP, Fluorimetry, gravimetric analysis, volumetric titrations, Potentiometry	TCD), AAS, ICP-MS, Fluorimetry, gravimetric analysis, volumetric titrations, Potentiometry
				Microbiological tests	Sterility test, microbial limit tests, microbial assay of antibiotics, Bacterial Endotoxins Tests (LAL test)	Bacterial Endotoxins Tests (LAL test)
				Type of analysis	*Finished products*	*Active pharmaceutical ingredients*
Pakistan Drugs Testing and Research Center (PDTRC) Sundar Raiwind Road, Commercial Area (North) Sundar Industrial Estates, Raiwind Lahore Pakistan Tel: +92 42 35297281-4 e-mail: info@pdtrc.org.pk	23-24.7.2018	Compliant with WHO recommended standards	03.04.2019	Physical/Chemical analysis	pH	pH
				Identification	HPLC (UV-VIS, UV-VIS spectrophotometry.	HPLC (UV-VIS, UV-VIS spectrophotometry
				Assay, impurities and related substances	HPLC (UV-VIS), UV-VIS spectrophotometry.	HPLC (UV-VIS), UV-VIS spectrophotometry.
				Type of analysis	*Finished products*	*Active pharmaceutical ingredients*
Arwan Pharmaceutical Industries 3-Jadra Real Estate, Jadra Chouf Mount Lebanon Lebanon Tel: +961 7 996 002 Fax: +961 7 995 627	9-12 July 2019	Compliant with WHO recommended standards	16.03.2020	Physical/Chemical analysis	pH, density, appearance, color intensity, optical rotation, viscosity, water content, conductivity, limit tests, acidity, alkalinity, tablet hardness, friability, disintegration, dissolution, uniformity of dosage units (mass content), loss on drying, particulate matter test, extractable volume, dimensions.	pH, optical rotation, viscosity, melting point, loss on drying, water content, osmolarity, conductivity, heavy metals, limit tests, acid value, iodine value, peroxide value, ester value, hydroxyl value, density, sulphated ash, residue on ignition, total organic carbon, solubility.
				Identification	HPLC (UV-Vis, PDA, RI), TLC, UVVIS spectrophotometry, FTIR, AAS.	HPLC (UV-Vis, PDA, RI, conductivity, fluorescence, detection), GC (FID), TLC, UV-VIS spectrophotometry, basic

e-mail: qc@arwanlb.com						tests, capillary electrophoresis, FTIR, AAS.
				Assay, impurities and related substances	HPLC (UV-Vis, PDA, RI, fluorescence), uV-Vis spectrophotometry, AAS, FTIR, volumetric titrations, TLC, potentiometry, Analytical Test method validations.	HPLC (UV-Vis, PDA, RI, fluorescence), GC FID, UV-Vis spectrophotometry, AAS, FTIR, volumetric titrations, TLC, potentiometry, Analytical Test method validations.
				Microbiological tests	Sterility test, microbial limit tests, bacterial endotoxins test (LAL), microbial assay of antibiotics, preservative efficacy test, Test method validations.	Sterility test, microbial limit tests, bacterial endotoxins test (LAL), microbial assay of antibiotics, Test method validations.
				Stability testing	Stability testing for all required ICHzones Stability testing for all required ICH zones	Stability testing for all required ICH zones Stability testing for all required ICH zones
				Type of analysis	*Finished products*	*Active pharmaceutical ingredients*
Drugs Testing Laboratory (DTL) Faisalabad A block, Near DPS School G.M. Abad Faisalabad 38000 Pakistan Tel: +92419330300-1	23-25 September 2019	Compliant with WHO recommended standards	16.03.2020	Physical/Chemical analysis	pH, water content, loss on drying, friability, tablet hardness, tablet dimensions, uniformity of dosage units (mass, content), disintegration time, dissolution, viscosity, density/specific gravity.	pH, water content, loss on drying, density, melting point, conductivity.
				Identification	IR, TLC, HPLC, UV, spectrophotometry and basic tests.	IR, TLC, HPLC, UV, spectrophotometry and basic tests.
				Assay, impurities and related substances	HPLC (UV-VIS, DAD, RI detection), GC, UV, and FTIR spectrophotometry and volumetric titrations, polarimetry, Determination of related substances and impurities by	HPLC (UV-VIS, DAD, RI detection), GC, UV, and FTIR spectrophotometry and volumetric titrations, polarimetry, Determination of related substances and impurities by

e-mail: shoaibdtlfsd@gmail.com; directordtlfsd@gmail.com					comparison with a reference standard.	comparison with a reference standard.
				Type of analysis	*Finished products*	*Active pharmaceutical ingredients*
Prime Health (Pvt) Ltd (PHPL) Royal Plaza, Mezzanine Floor, 30 East, Fazal-e-Haq Road, Blue Area, Islamabad, Pakistan. Tel: 00-92-51-8445004, 92-333-0590374 e-mail: ambreen@primehealthlaboratories.com	22-24.1.2020	Compliant with WHO recommended standards	04.06.2020	Physical/Chemical analysis	pH, Water content (Karl-fisher), Loss on drying, dissolution, uniformity of dosage units, Titration, polarimetry, residual solvents	pH, Water content (Karl-fisher), Loss on drying, Titration, polarimetry, residual solvents
				Identification	HPLC, UV-VIS Spectrophotometer, FTIR HPLC, UV-VIS Spectrophotometer, FTIR	HPLC, UV-VIS Spectrophotometer, FTIR HPLC, UV-VIS Spectrophotometer, FTIR
				Assay, impurities and related substances	HPLC (UV—VIS, DAD, RI detection), UV-VIS Spectrophotometer, GC, Atomic Absorption Spectroscopy, polarimetry, residual solvents.	HPLC (UV—VIS, DAD, RI detection), UV-VIS Spectrophotometer, GC, Atomic Absorption Spectroscopy, polarimetry, residual solvents.
				Stability studies	ICH conditions	ICH conditions
WHO Western Pacific Region						
				Type of analysis	*Finished products*	*Active pharmaceutical ingredients*
National Institutes for Food and Drug Control (NIFDC) - **Divisions of Chemical Drugs, Antibiotics, Narcotic Drugs and Pharmacology of the Institute for Chemical Drug Control** 2 Tiantan Xili (Temple of Heaven) 100050 Beijing P.R. CHINA	27-30.8.2018	Compliant with WHO recommended standards	20.11.2012	Physical/Chemical analysis	pH, density, refractometry, water content, limit tests, disintegration, dissolution, uniformity of dosage units (mass, content), friability, dimensions	pH, refractometry, optical rotation, loss on drying, water content, heavy metals, acid value, iodine value, limit tests, nitrogen determination
				Identification	HPLC (UV-Vis, RI detection), GC (FID), TLC, UV-VIS spectrophotometry, FTIR, basic tests	HPLC (UV-Vis, RI detection), GC (FID), TLC, UV-VIS spectrophotometry, FTIR, basic tests
				Assay, impurities and related substances	HPLC (UV-Vis, RI detection), GC (FID), UV-VIS spectrophotometry, AAS, FTIR, volumetric titrations	HPLC (UV-Vis, RI detection), GC (FID), UV-VIS spectrophotometry, AAS, FTIR, volumetric titrations

Tel: +86 10 67095866 Fax: +86 10 65113805 e-mail: yanghx@nifdc.org.cn zhanghz@nicpbp.org.cn				Microbiological tests	Bacterial endotoxins test (LAL), microbial assay of antibiotics	Bacterial endotoxins test (LAL), microbial assay of antibiotics
				Type of analysis	*Finished products*	*Active pharmaceutical ingredients*
National Institute of Drug Quality Control of Vietnam (NIDQC) 48 Hai Ba Trung Street Hoan Kiem District Hanoi Vietnam Tel. +844 824 5009 Fax: +844 825 6911 e-mail: npthaodz@yahoo.com.vn nhlienvkn@gmail.com tranthuyhanh1974@yahoo.com	21-25.2.2020	Compliant with WHO recommended standards	28.11.2008	Physical/Chemical analysis	pH, density, refractometry, viscosity, loss on drying, water content, disintegration, dissolution, uniformity of dosage units (mass, content), friability, tablet hardness, particulate matter test	pH, density, refractometry, specific optical rotation, viscosity, loss on drying, melting point, water content, heavy metals, sulphated ash, acid insoluble ash, acid value, iodine value, ester value, acetyl value, peroxide value, saponification value
				Identification	HPLC (UV-Vis, DAD, fluorescence, light scattering detection), LC/MS/MS, GC (FID, ECD), GC/MS, TLC, HPTLC, UV-VIS spectrophotometry, IR, AAS	HPLC (UV-Vis, DAD, fluorescence, light scattering detection), LC/MS/MS, GC (FID, ECD), GC/MS, TLC, HPTLC, UV-VIS spectrophotometry, IR, FTIR, AAS, chemical reaction
				Assay, impurities and related substances	HPLC (UV-Vis, DAD, fluorescence, light scattering detection), LC/MS/MS, GC (FID, ECD), GC/MS, TLC, HPTLC, UV-VIS spectrophotometry, AAS, fluorimetry, volumetric titrations, amperometry, potentiometry, nitrogen assay	HPLC (UV-Vis, DAD, fluorescence, light scattering detection), LC/MS/MS, GC (FID, ECD), GC/MS, TLC, HPTLC, UV-VIS spectrophotometry, AAS, fluorimetry, volumetric titrations, amperometry, potentiometry, nitrogen assay, thermal analysis (DSC)
				Microbiological tests	Sterility test, microbial purity, test for pyrogens, bacterial endotoxins test (LAL), microbial assay	Microbial assay
				Stability studies	WHO conditions	WHO conditions

				Type of analysis	*Finished products*	*Active pharmaceutical ingredients*
TÜV SÜD PSB Pte Ltd **Chemical & Materials (Food & Pharmaceutical Testing)** 1 Science Park Drive Singapore 118221 Tel: +65 68851313 Fax: +65 67784301 e-mail: Jianhua.lin@tuv-sud-psb.sg	24-26.10.2016	Compliant with WHO recommended standards	21.8.2009	Physical/Chemical analysis	pH, density, refractometry, viscosity, loss on drying, water content, disintegration, dissolution, uniformity of dosage units (mass, content), friability, tablet hardness, particulate matter test	pH, density, refractometry, specific optical rotation, viscosity, loss on drying, melting point, water content, heavy metals, sulphated ash, acid insoluble ash, acid value, iodine value, ester value, acetyl value, peroxide value, saponification value
				Identification	HPLC (UV-Vis), GC (FID), GC/MS, TLC, HPTLC, UV-VIS spectrophotometry, IR, AAS.	HPLC (UV-Vis), GC (FID), GC/MS, TLC, HPTLC, UV-VIS spectrophotometry, IR, FTIR, AAS, chemical reaction, UHPLC.
				Assay, impurities and related substances	HPLC (UV-Vis, DAD, fluorescence, light scattering detection), GC (FID), TLC, HPTLC, UV-VIS spectrophotometry, AAS, volumetric titrations, potentiometry, nitrogen assay, UHPLC.	HPLC (UV-Vis, DAD, fluorescence, light scattering detection), GC (FID), TLC, HPTLC, UV-VIS spectrophotometry, AAS, volumetric titrations, potentiometry, nitrogen assay, UHPLC.
				Microbiological tests	Sterility test, microbial purity, test for pyrogens, bacterial endotoxins test (LAL), microbial assay.	Microbial assay, Sterility test, bacterial endotoxins test (LAL), Microbial Limit Test
				Type of analysis	*Finished products*	*Active pharmaceutical ingredients*
Institute of Drug Quality Control (IDQC) 200 Co Bac Street District 1 Ho Chi Minh City Viet Nam	17-19.10.2016	Compliant with WHO recommended standards	18.7.2017	Physical/Chemical analysis	pH, loss on drying, water content, , optical rotation, disintegration, dissolution, density, uniformity of dosage unit (mass, content)	pH, loss on drying, water content, melting point, sulphated ash, acid insoluble ash, residual solvents, limit test.
				Identification	HPLC (UV-VIS, Fluorescence, RI, DAD, MS detection), GC (FID, MS detection), FTIR, UV-VIS spectrophotometry, TLC, chemical reaction.	HPLC (UV-VIS detection), GC (FID, MS detection), FTIR, UV-VIS spectrophotometry, TLC, chemical reaction.
				Assay, impurities and related substances	HPLC (UV-VIS, Fluorescence, RI, DAD, MS detection), GC, UV-VIS	HPLC (UV-VIS, Fluorescence, RI, DAD, MS detection), GC, UV-VIS

Tel: +848 38368518 ; +848 9325271 Fax: +848 38367900 e-mail: info@idqc-hcm.gov.vn					spectrophotometry, volumetric and potentionmetric titrations.	spectrophotometry, volumetric and potentionmetric titrations.
				Microbiological tests	Sterility, microbial limit test, LAL test, microbial assay of antibiotics.	Sterility, microbial limit test, LAL test, microbial assay of antibiotics.
				Type of analysis	*Finished products*	*Active pharmaceutical ingredients*
Shenzhen Institute for Drug Control (SZIDC) No. 28, Gaoxin Central 2nd Avenue Nanshan District Shenzhen Guangdong P R China Tel: +86 755-26031123 Fax: +86 755-26031719 e-mail: szidc@szidc.org.cn wangxiaowei@szidc.org.cn	14-16.12.2017	Compliant with WHO recommended standards	1.5.2018	Physical/Chemical analysis	pH, Density, Refractometry, Water content, Limit tests, Disintegration time, Dissolution, Uniformity of dosage units (by mass or content), Friability.	pH, Refractometry, Optical rotation, Loss on drying, Water content ,Heavy metals, Acid Value, Iodine value, Limit tests, Nitrogen determination.
				Identification	HPLC (UV-Vis, Refractive index detection, Fluorescence), GC with headspace (FID), TLC, IR, basic tests.	HPLC (UV-Vis, Refractive index detection, Fluorescence), GC with headspace (FID), TLC, IR, basic tests.
				Assay, impurities and related substances	HPLC (UV-Vis, Fluorescence and Refractive index detection), GC with headspace (FID), TLC, UV-Vis spectrophotometry, AAS, IR, Volumetric titrations.	HPLC (UV-Vis, Fluorescence and Refractive index detection), GC with headspace (FID), TLC, UV-Vis spectrophotometry, AAS, IR, Volumetric titrations.

Version history

Edition	*Date*	*Change*
51st Edition	07 September 2020	Added Instituto Nacional de Vigilancia de Medicamentos y Alimentos (INVIMA), Bogota, Colombia Added Sipra Labs Limited, Hyderabad, India Deleted Laboratoire National de Contrôle des Produits Pharmaceutiques, LNCPP (Algérie) Updated date if last inspection and scope of tests for SGS India Pvt Ltd, Chennai, India; Laboratorio de Control de Calidad de Medicamentos y Toxicologia (CONCAMYT), Bolivia; National Institute of Drug Quality Control of Vietnam (NIDQC), Vietnam and updated address and date of last inspection for Laboratory of Pharmaceutical Analysis (LPA), Ukraine. Updated change of name for Tanzania Medicines and Medical Devices Authority (TMDA) and contact details for Rostov-on-Don Branch of Federal State Budgetary Institution "Information and Methodological Center for Expertise, Stocktaking and Analysis of Circulation of Medical products" of the Federal Service on Surveillance in Healthcare.
50th Edition	17 June 2020	Updated date of last inspection for BDN, Thailand Added Prime Health (Pvt) Ltd (PHPL) Islamabad, Pakistan. Updated contact details for Comisión para el Control de Calidad de Medicamentos (CCCM), Montevideo, Uruguay
49th Edition	16 March 2020	Updated dates of last inspection for NDA, Uganda. Updated dates for last inspection and scope of tests for Laboratory of the Mission for Essential Drugs and Supplies -Kenya. Updated dates for last inspection and scope of tests for State Scientific Research Laboratory on Quality Control of Medicines (SSRL), Ukraine. Updated dates of last inspection and scope of tests or SGS Lab Simon, Belgium. Updated address, contact details and scope of tests for SGS India Pvt. Ltd - Life Science, Chennai, India. Updated date of last desk review for K.A.B.S. Laboratories Inc, Canada. Updated date of last desk review for Medicines Control Laboratory (SCM-DGO), Belgium. Updated date of last desk review for Laboratorios Basi - Industria Farmaceutica, S.A., Portugal. Added Arwan Pharmaceutical Industries Jadra Chouf, Mt Lebanon, Lebanon. Added National Center for Expertise of Medicines, Medical Devices and Medical Equipment (NCEM), Karaganda, Kazahkstan.

		Added Drugs Testing Laboratory (DTL) Faisalabad, Pakistan. Added National Control Laboratory (NCL), Dhaka, Bangladesh
48th Edition	10.12.2019	Corrected WHO region for Pakistan Drugs Testing and Research Centre, Lahore, Pakistan to EMRO Added National Quality Control Laboratory for Drugs and Foods (NQCLDF), Jakarta Pusat, Indonesia
47th Edition	03.07.2019	Added Pakistan Drugs Testing and Research Centre, Lahore, Pakistan Change of name from For APTYS Pharmaceuticals to APTYS Pharmaservices Updated contact details for Synergy Health Utrecht B.V Updated inspection date (desk review) for INFARMED, Portugal; Laboratoire National de Contrôle des Médicaments – LNCM, Morocco; National Institutes for Food and Drug Control (NIFDC), China; Republican Control and Analytical Laboratory of the Centre for Expertise and Testing in Health Care (RCAL), Belarus Updated contact email for Vimta Labs Limited
46th Edition	26.07.2018	Added APTYS Pharmaceuticals, Saint Beauzire, France Added Gimopharm, Longjumeau, France Added The Drug Service of the Public Laboratory Dr Giovanni Cysneiros (LACEN-GO), Brazil

		Updated dates of last inspection for Instituto Nacional de Controle de Qualidade em Saude / National Institute of Health Quality Control (INCQS), Brazil; Ezequiel Dias Foundation (FUNED), Central Laboratory of Public Health of Minas Gerais (Lacen-MG), Brazil;
45th Edition	01.05.2018	Added Shenzhen Institute for Drug Control (SZIDC), Shenzhen, China
44th Edition	16.4.2018	Updated contact details for Health Concepts International Ltd, Klong Luang, Pathumthani, Thailand and Laboratoire National de Contrôle des Médicaments – LNCM, Morocco. Added The United States Pharmacopoeia – Ghana (USP-Ghana), Accra, Ghana
43rd Edition	18.07.2017	Updated Laboratoire National de Contrôle des Médicaments - LNCM (Maroc), area of expertise inspected and considered prequalified. Voluntary withdrawal of microbiology testing. Added Institute of Drug Quality Control (IDQC), Ho Chi Minh City, Viet Nam Updated scope of expertise that is prequalified and date of last inspection for TUV SUD PSB Pve Ltd Added M&L Laboratory Services (Pty) Ltd, Johannesburg, South Africa Updated date of last inspection for LNCM, Morocco; Adcock Ingram Limited Research and Development, Aeroton, Gauteng, South Africa; National Institute of Drug Quality Control of Vietnam (NIDQC), Hanoi, Vietnam; and SGS India Pvt. Ltd. (Life Science Services), Chennai, India.
42nd Edition	22.12.2016	Updated date of last inspection and address for Laboratory of chemical-pharmaceutical preparations No. 2 and Laboratory of antibiotics of the Federal State Budgetary Institution «Scientific Centre for Expert Evaluation of Medicinal Products», SCEEMP, Russian Federation.

		Removal of Getz Pharma Pvt Ltd from list following voluntary withdrawal. Removal of Centro Nacional de Control de Calidad (CNCC) - Instituto Nacional de Salud, Peru from list following voluntary withdrawal. Added University of Liege, Faculty of Medicine, Department of Pharmacy, Liege, Belgium
41st Edition	14.07.2016	Added Health Concepts International Ltd, Pathumthani, Thailand Change of the name of Centre Humanitaire Médico-Pharmaceutique to Pharmacie et Aide Humanitaire - Centre Humanitaire Médico-Pharmaceutique (PAH-CHMP) to Centre Humanitaire des Métiers de la Pharmacie (CHMP). Updated date of last inspection for Central Laboratory for Quality Control of Medicines and Medical Products (CLQCM), Ukraine. Updated date of last inspection for Laboratory of Pharmaceutical Analysis (LPA), Ukraine.
40th edition	16.06.2016	Added Agency for Medicinal Products and Medical Devices (HALMED), Official Medicines Control Laboratory (OMCL), Zagreb, Croatia
39th edition	11.03.2016	Added Food and Drugs Control Reference Laboratories (FDCRL), Food & Drugs Administration, Ministry of Health and Medical Education, Tehran, Islamic Republic of Iran. Updated dates of last inspection for Laboratory of chemical-pharmaceutical preparations No. 2 and Laboratory of antibiotics of the Federal State Budgetary Institution «Scientific Centre for Expert Evaluation of Medicinal Products», Ministry of Health of the Russian Federation; TÜV SÜD PSB Pte Ltd, Chemical & Materials (Food & Pharmaceutical Testing), Singapore; National Institute of Drug Quality Control of Vietnam (NIDQC), Hanoi, Vietnam

38th edition	03.02.2016	Added State Scientific Research Laboratory on Quality Control of Medicines, Kiev, Ukraine Updated dates of last inspections for Laboratory of the Mission for Essential Drugs and Supplies - (MEDS), Kenya and National Quality Control laboratory (NQCL), Kenya
37th edition	19.11.2015	Added Medicines Control Laboratory (SCM-DGO)m Stevinstraat 137, 1000 Brussels, Belgium Date of last inspection Bureau of Drug and Narcotic (BDN), Department of Medical Sciences, Ministry of Public Health (Thailand) and INFARMED I.P. Direcção da Comprovação da Qualidade (DCQ), Lisboa, Portugal.
36th edition	15.05.2015	Added Indian Pharmacopoiea Commission - Indian Pharmacopoeial Laboratory – Ghaziabad, India Updated dates of last inspections of Research Institute for Industrial Pharmacy (RIIP) incorporating CENQAM, South Africa; SGS Lab Simon S. A., Wavre, Belgium;
35th edition	22.01.2015	Added National Drug Authority – National Drug Quality Control Laboratory (NDA-NDQCL) – Uganda Updated dates of last inspections of Laboratoire National de Contrôle des Médicaments (LNCM), Morocco. Change in the scope of areas of expertise for Laboratoire National de Contrôle des Médicaments (LNCM), Morocco
34th edition	27.10. 2014	Added Intertek (Schweiz) AG, Switzerland Microbiological testing added to the area of expertise of Laboratorio de Control de Calidad de Medicamentos y Toxicologia (CONCAMYT) Bolivia Updated dates of last inspections of Laboratorio de Control de Calidad de Medicamentos y Toxicologia (CONCAMYT) Bolivia and Laboratoire National de Contrôle des Produits Pharmaceutiques (LNCPP) Algeria
33rd edition	23.9.2014	Added Synergy Health Utrecht B.V., Pharmaceutical Laboratories (SHPL), The Netherlands
32nd edition	19.9.2014	Added Medicines Control Authority of Zimbabwe (MCAZ) Quality Control Laboratory (Zimbabwe) Updated dates of last inspections of Tanzania Food and Drugs Authority (TFDA) Quality Control Laboratory (Tanzania), K.A.B.S. Laboratories Inc. (Canada) and Republican Control and Analytical Laboratory of the Centre for Expertise and Testing in Health Care (Belarus) Updated contact details of National Institutes for Food and Drug Control (NIFDC) - Divisions of Chemical Drugs, Antibiotics, Narcotic Drugs and Pharmacology of the Institute for Chemical Drug Control, China and Centro Nacional de Control de Calidad (CNCC) - Instituto Nacional de Salud, Peru
31st edition	01.04.2014	Added InphA GmbH - Institute for Pharmaceutical and Applied Analytics, Germany

		Updated dates of last inspections of SGS India Pvt. Ltd. (Life Science Services)
30th edition	11.03.2014	Added Rostov-on-Don Branch of Federal State Budgetary Institution "Information and Methodological Center for Expertise, Stocktaking and Analysis of Circulation of Medical products" of the Federal Service on Surveillance in Healthcare, Russian Federation and Instituto Nacional de Controle de Qualidade em Saúde (INCQS), Brazil Updated dates of last inspections of National Institutes for Food and Drug Control (NIFDC) - Divisions of Chemical Drugs, Antibiotics, Narcotic Drugs and Pharmacology of the Institute for Chemical Drug Control (China) and Proxy Laboratories B.V. (The Netherlands) Change of the name of Centre Humanitaire Médico-Pharmaceutique to Pharmacie et Aide Humanitaire - Centre Humanitaire Médico-Pharmaceutique (PAH-CHMP) and updated date of its last inspection
29th edition	17.02.2014	Added Getz Pharma Pvt Ltd – Quality Control Laboratory, Pakistan Updated dates of the last inspection of Vimta Labs India
28th edition	09.12.2013	Added Stabicon Life Sciences Pvt Ltd, India Updated dates of last inspections of Comisión para el Control de Calidad de Medicamentos (CCCM), Uruguay; Centro Nacional de Control de Calidad (CNCC) - Instituto Nacional de Salud, Peru
27th edition	13.11.2013	Added Comisión de Control Analítico y Ampliación de Cobertura (CCAYAC), Mexico Updated date of last inspection of K.A.B.S. Laboratories Inc., Canada Stability studies added to the area of expertise of National Institute of Drug Quality Control of Vietnam Change of the name of Federal State Budgetary Institution «Scientific Centre for Expert Evaluation of Medicinal Products», Ministry of Health and Social Development of the Russian Federation and update of contact details Updated contact details of Centro Nacional de Control de Calidad (CNCC) Peru; National Quality Control Laboratory (NQCL) Kenya, Adcock Ingram South Africa, Bureau of Drud and Narcotic (BDN) Thailand
26th edition	12.06.2013	Added Laboratorios Basi - Industria Farmaceutica, S.A., Quality Control Unit (Portugal) Change of the name of Laboratory of Pharmaceutical Analysis, State Pharmacological Centre, Ukraine Change of the name of Central Laboratory for Quality Control of Medicines and Medical Products, State Inspection for Quality Control of Medicines Updated dates of last inspections of INFARMED I.P. Direcção da Comprovação da Qualidade, Portugal; Laboratory of Pharmaceutical Analysis, State Expert Centre, Ukraine; Central Laboratory for Quality Control of Medicines and Medical Products SE, State Drug Administration of Ukraine; National Institute of Drug Quality Control of Vietnam, Vietnam and Laboratory of the Mission for Essential Drugs and Supplies - MEDS
25th edition	20.11.2012	Added National Institutes for Food and Drug Control (NIFDC) - Divisions of Chemical Drugs, Antibiotics, Narcotic Drugs and Pharmacology of the Institute for Chemical Drug Control (China) Contact details of TÜV SÜD PSB Pte Ltd, Singapore updated

24th edition	02.11.2012	Added Bureau of Drug and Narcotic (BDN), Department of Medical Sciences, Ministry of Public Health (Thailand) Date of last inspection of TÜV SÜD PSB Pte Ltd updated and stability studies added to the area of expertise
23rd edition	21.06.2012	Added Republican Control and Analytical Laboratory of the Centre for Expertise and Testing in Health Care (Belarus)
22nd edition	21.05.2012	Added Laboratory of chemical-pharmaceutical preparations No. 2 and Laboratory of antibiotics of the Federal State Budgetary Institution «Scientific Centre for Expert Evaluation of Medicinal Products», Ministry of Health and Social Development of the Russian Federation Date of last inspection of RIIP incorporating CENQAM, South Africa updated
21st edition	26.04.2012	Pharmaceutical Laboratory of the Health Sciences Authority - Applied Sciences Group - Pharmaceutical Division withdrawn from the list on its request Date of last inspection of NQCL Kenya and LNCM Morocco updated Contact details of MEDS Kenya, NQCL Kenya, CHMP France, Laboratory of Pharmaceutical Analysis Ukraine and NIDQC Vietnam updated
20th edition	20.10.2011	Date of last inspection of K.A.B.S. Laboratories Inc., Canada updated Added Ezequiel Dias Foundation, Institute Octavio Magalhães, Medicines Service of Public Health Central Laboratory (Brazil)
19th edition	31.08.2011	Date of last inspection of Adcock Ingram Limited - Research and Development, South Africa updated Added Proxy Laboratories B.V. (The Netherlands) and INFARMED I.P. Direcção da Comprovação da Qualidade (Portugal)
18th edition	31.05.2011	Date of the last inspection of Vimta Labs Limited (India) updated Added SGS Lab Simon S.A. (Belgium)
17th edition	17.01.2011	Date of the last inspection of Laboratoire National de Contrôle des Produits Pharmaceutiques, LNCPP (Algérie) updated Added SGS India Pvt. Ltd. (Life Science Services), India and Tanzania Food and Drugs Authority (TFDA) Quality Control Laboratory, Tanzania
16th edition	16.09.2010	Added Centro Nacional de Control de Calidad (CNCC) Peru, Comisión para el Control de Calidad de Medicamentos (CCCM) Uruguay and Laboratorio de Control de Calidad de Medicamentos y Toxicologia (CONCAMYT) Bolivia Contact details of Adcock Ingram South Africa and TÜV SÜD PSB Pte Ltd Singapore updated
15th edition	16.04.2010	Added Central Laboratory for Quality Control of Medicines and Medical Products, Ukraine and Laboratory of Pharmaceutical Analysis, Ukraine Contact details of Adcock Ingram South Africa, LNCM Morocco and LNCPP Algeria updated
14th edition	10.02.2010	Added K.A.B.S. Laboratories Inc., Canada

13th edition	21.08.2009	Added TÜV SÜD PSB Pte Ltd, Chemical & Materials (Food & Pharmaceutical Testing), Singapore
12th edition	25.06.2009	Added Pharmaceutical Laboratory of the Health Sciences Authority, Applied Sciences Group, Pharmaceutical Division - HSA (Singapore)
11th edition	23.03.2009	Added Laboratory of Mission for Essential Drugs and Supplies - MEDS (Kenya)
10th edition	28.11.2008	Added National institute of Drug Quality Control - NIDQC (Vietnam)
9th edition	28.10.2008	Added Centre Humanitaire Médico-Pharmaceutique - CHMP (France)
8th edition	17.07.2008	Added Laboratoire National de Contrôle des Médicaments - LNCM (Maroc), National Quality Control laboratory - NQCL (Kenya) and Vimta Labs Limited (India)
7th edition	16.05.2008	Change reflecting the merger of RIIP and CENQAM into one organization with a single quality system
6th edition	15.01.2008	Added Adcock Ingram Limited - Research and Development (South Africa)
5th edition	09.01.2007	Added point 12.; 13. and 14. to General Notes
4th edition	14.11.2006	Added the background and current status of the Programme and the general notes and the disclaimer
3rd edition	27.10.2005	Added Laboratoire National de Contrôle des Produits Pharmaceutiques - LNCPP (Algérie)
2nd edition	05.07.2005	Added Research Institute for Industrial Pharmacy - RIIP (South Africa)
1st edition	22.06.2005	Added Centre for Quality Assurance of Medicines - CENQAM (South Africa)

General Notes:

- This list is updated regularly. Quality control laboratories are added to the list when found to meet the norms and standards recommended by WHO. Inclusion in the list does not, however, imply any approval by WHO of the laboratories (which is the sole prerogative of national authorities).

- WHO cannot represent that the listed laboratories will continue to meet the above-mentioned standards. WHO may suspend or remove a laboratory from the list if it is found that it no longer meets the standards recommended by WHO.

- The fact that certain laboratories are not included in the list does not necessarily mean that, if assessed, they could not be found to comply with the above-mentioned standards.

- The list may not be used by laboratories for commercial or promotional purposes.

Suggestions to organizations using services of listed laboratories

- This list indicates the laboratories found to be acceptable, in principle, for use by United Nations agencies and other procurement organizations.

- The list does not constitute any guarantee for the use of the laboratories mentioned. The pre-qualification focuses on laboratory information evaluation as well as site inspections as described in the prequalification procedure (Procedure for assessing the acceptability, in principle, of quality control laboratories for use by United Nations agencies). Organizations using this list should perform due diligence prior to using the laboratory, including but not limited to the financial situation and standing of the laboratory, ability to test the required samples and other related aspects. It is recommended that prior to using the laboratories, organizations familiarize themselves with aspects such as infrastructure, capacity, and patents of the products in question as well as other related matters.

- There should be an agreement between the organization (contract giver) and the prequalified laboratory (contract acceptor) indicating the responsibilities of both parties.

- Laboratories should ensure that the testing of products would not be in breach of their national legislation including patent restrictions.

- Laboratories should declare any possible conflict of interest in testing product samples prior to agreeing to perform work on behalf of the contract giver.

Disclaimer to the WHO List of Prequalified Quality Control Laboratories

1. Inclusion in the list does not constitute an endorsement, or warranty of the fitness, of any laboratory for a particular purpose.

2. WHO does not furthermore warrant or represent that:
   a) the list is complete or error free; and/or that
   b) the laboratories which have been found to meet the standards recommended by WHO, will continue to do so; and/or that
   c) the laboratories listed have obtained regulatory approval for use for testing drugs, or that their activities are in accordance with the national laws and regulations of any country, including but not limited to patent laws.

3. In addition, WHO wishes to alert United Nations agencies and other procurement organizations that the improper storage, handling and transportation of pharmaceutical products may affect their quality, efficacy and safety and the outcome of analysis. WHO disclaims any and all liability and responsibility for any injury, death, loss, damage or other prejudice of any kind whatsoever that may arise as a result of, or in connection with the use of any laboratory included in the list.

By using this list, you confirm that you have read, understand and to the extent applicable, accept and agree with the information provided under the above-mentioned bullet points.