Deutsche Akkreditierungsstelle

Annex to the Partial Accreditation Certificate D-PL-21471-01-01 according to DIN EN ISO/IEC 17025:2018

Valid from:	**26.03.2024**	**Valid to:**	**25.03.2029**
Date of issue:	26.03.2024		

This annex is a part of the accreditation certificate D-PL-21471-01-00.

Holder of partial accreditation certificate:

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The testing laboratory meets the requirements of DIN EN ISO/IEC 17025:2018 to carry out the conformity assessment activities listed in this annex. The testing laboratory meets additional legal and normative requirements, if applicable, including those in relevant sectoral schemes, provided that these are explicitly confirmed below.

The management system requirements of DIN EN ISO/IEC 17025 are written in the language relevant to the operations of testing laboratories and confirm generally with the principles of DIN EN ISO 9001.

Physical, physical-chemical and chemical tests, mechanical-technological properties, burning behaviour, colour fastness and performance tests of textiles and textile products (excluded consumer products)

The testing laboratory is permitted, without being required to inform and obtain prior approval from DAkkS, to use standards or equivalent testing methods listed here with different issue dates. In-house procedures are generally excluded from this.

The testing laboratory is permitted, without being required to inform and obtain prior approval from DAkkS, the following:

[1] the free choice of standard methods or equivalent/similar methods within a defined testing field
[2] the modification, refinement and development of test methods within a defined testing field

The listed testing methods are exemplary. The testing laboratory maintains a current list of all testing methods within the flexible scope of accreditation.

Content

1 Physical, physical-chemical and chemical testing textile and textile products

1.1 Determination of colourfastness of textile and textile products by ordinary visual examination [2)]

AATCC EP 1 2020	Evaluation Procedure for Gray Scale for Color Change
AATCC EP 2 2020	Evaluation Procedure for Gray Scale for Staining
AATCC TM 8 2016(2022)	Test Method for Colorfastness to Crocking: Crockmeter
AATCC TM 15 2021	Test Method for Colorfastness to Perspiration
AATCC TM 16.3 2020	Colorfastness to light - Xenon arc
AATCC TM 61 2013(2020)	Test Method for Colorfastness to Laundering: Accelerated
AATCC TM 104 2010(2014)	Test Method for Colorfastness to Water Spotting
AATCC TM 106 2009(2013)	Test Method for Colorfastness to Water: Sea
AATCC TM 107 2022	Test Method for Colorfastness to Water
AATCC TM 132 2004(2013)	Test Method for Colorfastness to Drycleaning
AATCC TM 162 2011	Test Method for Colorfastness to Water: Chlorinated Pool
AATCC TM 163 2013(2020)	Test Method for Colorfastness to Storage: Dye Transfer
AATCC TM 172 2010(2016)	Test Method for Colorfastness to Powdered Non-Chlorine Bleach in Home Laundering
AATCC TM 188 2010(2017)	Test Method for Colorfastness to Sodium Hypochlorite Bleach in Home Laundering

AATCC TS 001 2004	Quick Methods for Colorfastness to Chlorine and Non-Chlorine Bleach
ASU B 82.02-13 2011-12	Analysis of commodity goods - Determination of the colourfastness of articles for common use - Part 2: Test with artificial sweat (Adoption of the DIN 53160-2 with the same title, edition October 2010)
ASU B 82.92-3 2011-12	Analysis of commodity goods - Determination of the colourfastness of articles for common use - Part 1: Test with artificial saliva (Adoption of the DIN 53160-1 with the same title, edition October 2010)
DIN EN ISO 105-A01 2010-05	Textiles - Tests for colour fastness - Part A01: General principles of testing (ISO 105-A01:2010)
DIN EN 20105-A02 1994-10	Textiles - Tests for colour fastness - Part A02: Grey scale for assessing change in colour (ISO 105-A02:1993)
DIN EN ISO 105-A03 2020-02	Textiles - Tests for colour fastness - Part A03: Grey scale for assessing staining (ISO 105-A03:2019)
DIN EN ISO 105-B02 2014-11	Textiles - Tests for colour fastness - Part B02: Colour fastness to artificial light: Xenon arc fading lamp test (ISO 105-B02:2014)
DIN EN ISO 105-B07 2009-10	Textiles - Tests for colour fastness - Part B07: Colour fastness to light of textiles wetted with artificial perspiration (ISO 105-B07:2009)
DIN EN ISO 105-C06 2010-08	Textiles - Tests for colour fastness - Part C06: Colour fastness to domestic and commercial laundering (ISO 105-C06:2010)
DIN EN ISO 105-C08 2010-08	Textiles - Tests for colour fastness - Part C08: Colour fastness to domestic and commercial laundering using a non-phosphate reference detergent incorporating a low-temperature bleach activator (ISO 105-C08:2010)
DIN EN ISO 105-D01 2010-10	Textiles - Tests for colour fastness - Part D01: Colour fastness to dry cleaning of using perchloroethylene solvent (ISO 105-D01:2010)
DIN EN ISO 105-E01 2013-06	Textiles - Tests for colour fastness - Part E01: Colour fastness to water (ISO 105-E01:2013)
DIN EN ISO 105-E02 2013-06	Textiles - Tests for colour fastness - Part E02: Colour fastness to sea water (ISO 105-E02:2013)

DIN EN ISO 105-E03 2010-08	Textiles - Tests for colour fastness - Part E03: Colour fastness to chlorinated water (swimming-pool water) (ISO 105-E03:2010)
DIN EN ISO 105-E04 2013-08	Textiles - Tests for colour fastness - Part E04: Colour fastness to perspiration (ISO 105-E04:2013)
DIN EN ISO 105-E06 2006-10	Textiles - Tests for colour fastness - Part E06: Colour fastness to spotting: Alkali (ISO 105-E06:2006)
DIN EN ISO 105-E07 2010-08	Textiles - Tests for colour fastness - Part E07: Colour fastness to spotting: Water (ISO 105-E07:2010)
DIN EN 20105-N01 1995-03	Textiles - Tests for colour fastness - Part N01: Colour fastness to bleaching: Hypochlorite (ISO 105-N01:1993)
DIN EN ISO 105-N02 2018-12	Textiles - Tests for colour fastness - Part N02: Colour fastness to bleaching: Peroxide (ISO 105-N02:1993)
DIN EN ISO 105-X05 1997-05	Textiles - Tests for colour fastness - Part X05: Colour fastness to organic solvents (ISO 105-X05:1994)
DIN EN ISO 105-X11 1996-10	Textiles - Tests for colour fastness - Part X11: Colour fastness to hot pressing (ISO 105-X11:1994)
DIN EN ISO 105-X12 2016-11	Textiles - Tests for colour fastness - Part X12: Colour fastness to rubbing (ISO 105-X12:2016)
DIN EN ISO 105-X16 2016-11	Textiles - Tests for colour fastness - Part X16: Colour fastness to rubbing - Small areas (ISO 105-X16:2016)
DIN EN ISO 105-X18 2007-12	Textiles - Tests for colour fastness - Part X18: Assessment of the potential to phenolic yellowing of materials (ISO 105-X18:2007)
DIN EN ISO 11640 2018-11	Leather - Tests for colour fastness - Colour fastness to cycles of to-and-fro rubbing (ISO 11640:2018)
DIN EN ISO 11641 2013-02	Leather - Tests for colour fastness - Colour fastness to perspiration (ISO 11641:2012)
DIN EN ISO 11642 2013-02	Leather - Tests for colour fastness - Colour fastness to water (ISO 11642:2012)
DIN EN ISO 12947-4 2007-04	Textiles - Determination of abrasion resistance of fabrics by the Martindale method - Part 4: Assessment of appearance change (Colour change after rubbing) (ISO 12947-4:1998+Cor.1:2002)

DIN 53160 2023-07	Determination of the colour resilience of articles for common use - Test with saliva and perspiration simulants
DIN 54056 2017-11	Testing of colour fastness of textiles - Determination of colour fastness of dyeings and prints to sublimation in storage
GB/T 3920 2008-08	Textiles - Tests for colour fastness - Colour fastness to rubbing
GB/T 3922 2013-12	Textiles - Tests for colour fastness - Colour fastness to perspiration
GB/T 5713 2013-12	Textiles - Tests for colour fastness - Colour fastness to water
GB/T 18886 2019-06	Textiles - Tests for colour fastness - Colour fastness to saliva
SOP-QM-11.HK.02.A5.009 2019-06	Determination of the colourfastness of articles for common use according to DIN 53160-1 and DIN 53160-2:2010-10 Part 1: Test with artificial saliva, Part 2: Test with artificial sweat Modification: Determination of saliva and perspiration fastness of textiles, leather and accessories according to OEKO- TEX® Standard 201 M-9A, M-9B, ML-9a und ML-9B

1.2 Physical tests on textile, leather, metallic accessories, toys, infant articles

1.2.1 Determination of surface appearance of textiles and corrosion of metallic accessories by ordinary visual examination[2)]

AATCC TM 22 2017	Test Method for Water Repellency: Spray
AATCC TM 88B 2018	Test Method for Seam Smoothness in Fabrics after Home Laundering
AATCC TM 88C 2018	Test Method for Crease Retention in Fabrics after Home Laundering
AATCC TM 118 2020	Test Method for Oil Repellency: Hydrocarbon Resistance
AATCC TM 124 2018	Test Method for Smoothness Appearance of Fabrics after Home Laundering

AATCC TM 143 2018	Test Method for Appearance of Apparel and Other Textile End Products after Home Laundering
ASTM D4157-13 2022	Standard Test Method for Abrasion Resistance of Textile Fabrics (Oscillatory Cylinder Method)
ASTM D4966-22 2022	Standard Test Method for Abrasion Resistance of Textile Fabrics (Martindale Abrasion Tester Method)
ASTM D4970/D4970M-22 2022	Standard Test Method for Pilling Resistance and Other Related Surface Changes of Textile Fabrics: Martindale Tester
ISO 23232 2009-08	Textiles - Aqueous liquid repellency - Water/alcohol solution resistance test
DIN EN 13770 2002-10	Textiles - Determination of the abrasion resistance of knitted footwear garments (EN 13770:2002) Method 1
DIN EN ISO 4920 2012-12	Textile fabrics - Determination of resistance to surface wetting (spray test) (ISO 4920:2012)
DIN EN ISO 12945-1 2021-04	Textiles - Determination of fabric propensity to surface pilling, fuzzing or matting - Part 1: Pilling box method (ISO 12945-1:2020)
DIN EN ISO 12945-2 2021-04	Textiles - Determination of fabric propensity to surface pilling, fuzzing or matting - Part 2: Modified Martindale method (ISO 12945-2:2020)
DIN EN ISO 12945-4 2021-04	Textiles - Determination of fabric propensity to surface pilling, fuzzing or matting - Part 4: Assessment of pilling, fuzzing and matting by visual analysis (ISO 12945-4:2020)
DIN EN ISO 12947-2 2017-03	Textiles - Determination of the abrasion resistance of fabrics by the Martindale method - Part 2: Determination of specimen breakdown (ISO 12947-2:2016)
DIN EN ISO 12947-4 2007-04	Textiles - Determination of abrasion resistance of fabrics by the Martindale method - Part 4: Assessment of appearance change (ISO 12947-4:1998+Cor. 1:2002)
DIN EN ISO 14419 2010-08	Textiles - Oil repellency - Hydrocarbon resistance test (ISO 14419:2010)
DIN EN ISO 15487 2018-12	Textiles - Method for assessing appearance of apparel and other textile end products after domestic washing and drying (ISO 15487:2018)

DIN EN ISO 22775 2005-03	Footwear - Test methods for accessories: Metallic accessories - Corrosion resistance (EN ISO 22775:2004) Exclusive: Method 2
SOP-QM-11.HK.02.A4.044 2021-05	Corrosion tendency of metallic ingredients for clothing (DTB method)
SOP-QM-11.HKHAL.02.003 2023-10	Rubbing fastness of ABS knobs

1.2.2 Determination of hydrostatic pressure resistance of textiles by ordinary visual examination[1)]

AATCC TM 127 2017(2018)	Test Method for Water Resistance: Hydrostatic Pressure
DIN EN ISO 811 2018-08	Textiles - Determination of resistance to water penetration - Hydrostatic pressure test (ISO 811:2018)

1.2.3 Determination of construction on textiles by ordinary visual examination[1)]

ASTM D3775-17 2023	Standard Test Method for End (Warp) and Pick (Filling) Count of Woven Fabrics
ASTM D8007-15 2019	Standard Test Method for Wale and Course Count of Weft Knitted Fabrics
DIN EN 1049-2 1994-02	Textiles; woven fabrics; construction methods of analysis; Part 2: Determination of number of threads per unit length (ISO 7211-2:1984, modified)
DIN EN 14971 2006-04	Textiles - Knitted fabrics - Determination of number of stitches per unit length and unit area (EN 14971:2006)

1.2.4 Determination of abrasion properties of textiles by gravimetric analysis[1)]

DIN EN ISO 12947-3 2007-04	Textiles - Determination of abrasion resistance of fabrics by the Martindale method - Part 3: Determination of mass loss (ISO 12947-3:1998+Cor.1:2002)

1.2.5 Determination of mass on textiles by gravimetric analysis[1)]

ASTM D3776/D3776M-20 2020	Standard Test Methods for Mass Per Unit Area (Weight) of Fabric
DIN EN 12127 1997-12	Textile - Fabrics - Determination of mass per unit area using small samples (EN 12127:1997)
DIN EN 29073-1 1992-08	Textiles; test method for nonwovens; part 1: determination of mass per unit area (ISO 9073-1:1989)

1.2.6 Determination of linear density of textile threads by gravimetric analysis[1)]

DIN 53830-3 1981-05	Testing of textiles; determination of linear density of single and plied yarns; simple yarns and plied yarns, textured yarns, short length method

1.2.7 Determination of absorbency properties of textiles by length measuring[1)]

ISO 17617 2014-12	Textiles - Determination of moisture drying rate (Limitation: *Method B only*)

1.2.8 Determination of dimensional changes of textiles and textile products after laundering by length measuring[1)]

AATCC TM 135 2018	Test Method for Dimensional Changes of Fabrics after Home Laundering
AATCC TM 150 2018	Test Method for Dimensional Changes of Garments after Home Laundering
AATCC TM 179 2019	Test Method for Skew Change in Fabrics After Home Laundering
ISO 16322-1 2005-06	Textiles - Determination of spirality after laundering - Part 1: Percentage of wale spirality change in knitted garments
ISO 16322-2 2021-04	Textiles - Determination of spirality after laundering - Part 2: Woven and knitted fabrics
ISO 16322-3 2021-04	Textiles - Determination of spirality after laundering - Part 3: Woven and knitted garments

DIN EN ISO 3759 2011-08	Textiles - Preparation, marking and measuring of fabric specimens and garments in tests for determination of dimensional change (ISO 3759:2011)
DIN EN ISO 5077 2008-04	Textiles - determination of dimensional change in washing and drying (ISO 5077:2007)

1.2.9 Determination of construction on textiles by length measuring[1)]

ASTM D3774-18 2018	Standard Test Method for Width of Textile Fabric
ASTM D3882-08 2020	Standard Test Method for Bow and Skew in Woven and Knitted Fabrics
DIN EN 1773 1997-03	Textiles - Fabrics - Determination of width and length (EN 1773:1996)

1.2.10 Determination of fineness on textile fibers by microscopic length measuring[1)]

DIN EN ISO 137 2016-09	Wool - Determination of fibre diameter - Projection microscope method (ISO 137:2015)

1.2.11 Determination of thickness on textiles and leather by length measuring[1)]

DIN EN ISO 2589 2016-07	Leather - Physical and mechanical tests - Determination of thickness (ISO 2589:2016)
DIN 53811 1970-07	Testing of textiles - Determination of diameter of fibres from longitudinal view by microscope projection (Withdrawn)

1.2.12 Determination of absorbency properties of textiles by chronometric analysis[1)]

AATCC TM 79 2010(2018)	Absorbency of Textiles
DIN 53924 2020-09	Testing of textiles - Velocity of soaking water of textile fabrics (method by determining the rising height)

1.2.13 Determination of water vapour resistance of textiles by vaporisation heat flow[1)]

DIN EN ISO 11092 2014-12	Textiles - Physiological effects - Measurement of thermal and water-vapour resistance under steady-state conditions (sweating guarded-hotplate test)

1.2.14 Determination of thermal vapour resistance of textiles by heat flow[1)]

DIN EN ISO 11092 2014-12	Textiles - Physiological effects - Measurement of thermal and water-vapour resistance under steady-state conditions (sweating guarded-hotplate test)

1.2.15 Determination of air permeability of textiles by volume flow analyses[1)]

ASTM D737-18 2023	Standard Test Method for Air Permeability of Textile Fabrics
DIN EN ISO 9237 1995-12	Textiles - Determination of permeability of fabrics to air (ISO 9237:1995)

1.2.16 Determination of bursting resistance of textiles by pneumatic method[1)]

DIN EN ISO 13938-2 2020-03	Textiles - Bursting properties of fabrics - Part 2: Pneumatic method for determination of bursting strength and bursting distension (ISO 13938-2:2019)

1.2.17 Determination of tensile characteristics of textiles, leathers and infant articles with CRE method (constant rate of extension) [2)]

ASTM D1683/D1683M-22 2022	Standard Test Method for Failure in Sewn Seams of Woven Fabrics
ASTM D2061-07 2021	Standard Test Methods for Strength Tests for Zippers
ASTM D2062-03 2021	Standard Test Methods for Operability of Zippers
ASTM D2261-13 2017	Standard Test Method for Tearing Strength of Fabrics by the Tongue (Single Rip) Procedure (Constant-Rate-of-Extension Tensile Testing Machine)

ASTM D5034-21 2021	Standard Test Method for Breaking Strength and Elongation of Textile Fabrics (Grab Test)
ASTM D5035-11 2019	Standard Test Method for Breaking Force and Elongation of Textile Fabrics (Strip Method)
ASTM D7142-05 2021	Standard Test Method for Holding Strength of Prong-Ring Attached Snap Fasteners
ASTM F963-17 2017	Standard Consumer Safety Specification for Toy Safety 8.9 Tension test for removal of components
DIN EN ISO 3377-1 2012-03	Leather - Physical and mechanical tests - Determination of tear load - Part 1: Single edge tear (ISO 3377-1:2011)
DIN EN ISO 4674-1 2017-03	Rubber- or plastics-coated fabrics - Determination of tear resistance - Part 1: Constant rate of tear methods (ISO 4674-1:2016)
DIN EN ISO 13934-1 2013-08	Textiles - Tensile properties of fabrics - Part 1: Determination of maximum force and elongation at maximum force using the strip method (ISO 13934-1:2013)
DIN EN ISO 13934-2 2014-06	Textiles - Tensile properties of fabrics - Part 2: Determination of maximum force using the grab method (ISO 13934-2:2014)
DIN EN ISO 13935-1 2014-07	Textiles - Seam tensile properties of fabrics and made-up textile articles - Part 1: Determination of maximum force to seam rupture using the strip method (ISO 13935-1:2014)
DIN EN ISO 13935-2 2014-07	Textiles - Seam tensile properties of fabrics and made-up textile articles - Part 2: Determination of maximum force to seam rupture using the grab method (ISO 13935-2:2014)
DIN EN ISO 13936-1 2004-07	Textiles - Determination of the slippage resistance of yarns at a seam in woven fabrics - Part 1: Fixed seam opening method (ISO 13936-1:2004)
DIN EN ISO 13936-2 2004-07	Textiles - Determination of the slippage resistance of yarns at a seam in woven fabrics - Part 2: Fixed load method (ISO 13936-2:2004)
DIN EN ISO 13937-2 2000-06	Textiles - Tear properties of fabrics - Part 2: Determination of tear force of trouser-shaped test specimens (single tear method) (ISO 13937-2:2000)

DIN EN ISO 13937-3 2000-06	Textiles - Tear properties of fabrics - Part 3: Determination of tear force of wing-shaped test specimens (single tear method) (ISO 13937-3:2000)
DIN EN ISO 13937-4 2000-06	Textiles - Tear properties of fabrics - Part 4: Determination of tear force of tongue-shaped test specimens (double tear test) (ISO 13937-4:2000)
DIN EN ISO 20932-1 2022-02	Textiles - Determination of the elasticity of fabrics - Part 1: Strip tests (ISO 20932-1:2018)
DIN EN 14704-1 2005-07 withdrawn	Determination of the elasticity of fabrics - Part 1: Strip tests (EN 14704-1:2005)
DIN EN 15598 2008-11	Textiles - Terry fabrics - Test method for the determination of the resistance to pile loop extraction (EN 15598:2008)
DIN EN 16732 2016-05	Slide fasteners (zips) - Specification (EN 16732:2015)
DIN EN 29073-3 1992-08	Textiles; test method for nonwovens; part 3: determination of tensile strength and elongation (ISO 9073-3:1989)
DIN EN 71-1 2018-12	Safety of toys - Part 1: Mechanical and physical properties (EN 71-1-2014+A1:2018) 8.4 Tension test
DIN 53859-5 1992-12	Testing of textiles; tear growth test on textile fabrics; trapezoid test
DIN CEN/TR 16792 2015-11	Safety of children's clothing - Recommendations for the design and manufacture of children's clothing - Mechanical safety (CEN/TR 16792:2014) Exclusive: Annex B Method for determination of removal force of attached components Annex G Slide/zip fastener specification Annex H Small parts assessment
16 CFR PART 1500.51 2021-01	Test methods for simulating use and abuse of toys and other articles intended for use by children 18 months of age or less. Exclusive: (f) Tension test

16 CFR PART 1500.52 2021-01	Test methods for simulating use and abuse of toys and other articles intended for use by children over 18 but not over 36 months of age. Exclusive: (f) Tension test
16 CFR PART 1500.53 2021-01	Test methods for simulating use and abuse of toys and other articles intended for use by children over 36 but not over 96 months of age Exclusive: (f) Tension test
SOP-QM-11.HKHAL.02.002 2023-08	Strength at belt loops on bath robes

1.2.18 Determination of tensile properties of textiles with the pendulum method[1)]

DIN EN ISO 13937-1 2000-06	Textiles - Tear properties of fabrics - Part 1: Determination of tear force using ballistic pendulum method (Elmendorf) (ISO 13937-1:2000)

1.2.19 Determination of performance characteristics on textiles, toys and infant articles by simulated use[1)]

ASTM F963-17 2017	Standard Consumer Safety Specification for Toy Safety 4.6 Small objects 4.7 Accessible edges 4.9 Accessible points 8.8 Torque test for removal of components
DIN EN 14682 2015-03	Safety of children's clothing - Cords and drawstrings on children's clothing - Specifications (EN 14682:2014)
DIN EN 14697 2005-08	Textiles - Terry towels and terry towel fabrics - Specification and methods of test (EN 14697:2005) (Limitation: *Only Annex B*)
DIN EN 71-1 2018-12	Safety of toys - Part 1: Mechanical and physical properties (EN 71-1-2014+A1:2018) 8.2 Small parts cylinder 8.3 Torque test 8.10 Accessibility of a part or component 8.11 Sharpness of edges 8.12 Sharpness of points

16 CFR PART 1500.48 2021-01	Technical requirements for determining a sharp point in toys and other articles intended for use by children under 8 years of age.
16 CFR PART 1500.49 2021-01	Technical requirements for determining a sharp metal or glass edge in toys and other articles intended for use by children under 8 years of age.
16 CFR PART 1500.51 2021-01	Test methods for simulating use and abuse of toys and other articles intended for use by children 18 months of age or less. Exclusive: (e) Torque test
16 CFR PART 1500.52 2021-01	Test methods for simulating use and abuse of toys and other articles intended for use by children over 18 but not over 36 months of age. Exclusive: (e) Torque test
16 CFR PART 1500.53 2021-01	Test methods for simulating use and abuse of toys and other articles intended for use by children over 36 but not over 96 months of age Exclusive: (e) Torque test
16 CFR PART 1501 2021-01	Method for identifying toys and other articles intended for use by children under 3 years of age which present choking, aspiration, or ingestion hazards because of small parts.

1.3 Mechanical sample preparation of textiles by laundering and drying for physical testing[1)]

DIN EN ISO 6330 2022-03	Textiles - Domestic washing and drying procedures for textile testing (ISO 6330:2021)

Abbreviations used:

AATCC	American Association of Textile Chemists and Colorists
ASTM	ASTM International, formerly known as the American Society for Testing and Materials
CEN	Comité Européen de Normalisation [European Committee for Standardization]
CFR	Code of Federal Regulations (USA)
DIN	Deutsches Institut für Normung e.V. [German Institute for Standardisation Registered Association]
EN	Europäische Norm [European Standards]
GB/T	National Standard of the People´s Republic of China
IEC	International Electrotechnical Commission
ISO	International Organization for Standardization
SOP-QM	In-house-method of Hohenstein Laboratories (HK) Limited