

## Deutsche Akkreditierungsstelle GmbH

**Entrusted according to Section 8 subsection 1 AkkStelleG in connection with Section 1 subsection 1 AkkStelleGBV**

Signatory to the Multilateral Agreements of EA, ILAC and IAF for Mutual Recognition

# Accreditation



The Deutsche Akkreditierungsstelle GmbH attests that the testing laboratory

**ap-qualifizierung GmbH**  
**Lembergstraße 17, 72766 Reutlingen**

is competent under the terms of DIN EN ISO/IEC 17025:2018 to carry out tests in the following fields:

**Tests in the fields:** Medical devices and the Directive 93/42/EEC and 90/385/EEC

**Fields of Testing / Test items:** Microbiological-hygienic testing of medical devices as well as sterile barrier and packaging systems and physical testing of sterile and packaging systems; Environmental monitoring

The accreditation certificate shall only apply in connection with the notice of accreditation of 16.07.2020 with the accreditation number D-PL-20966-01. It comprises the cover sheet, the reverse side of the cover sheet and the following annex with a total of 7 pages.

Registration number of the certificate: **D-PL-20966-01-02**

Frankfurt am Main,  
16.07.2020

Dipl.-Biol. Uwe Zimmermann  
Head of Division

Translation issued:  
17.09.2020

  
Head of Division

*The certificate together with its annex reflects the status at the time of the date of issue. The current status of the scope of accreditation can be found in the database of accredited bodies of Deutsche Akkreditierungsstelle GmbH.*

<https://www.dakks.de/en/content/accredited-bodies-dakks>

This document is a translation. The definitive version is the original German accreditation certificate.

See notes overleaf.

# Deutsche Akkreditierungsstelle GmbH

Office Berlin  
Spittelmarkt 10  
10117 Berlin

Office Frankfurt am Main  
Europa-Allee 52  
60327 Frankfurt am Main

Office Braunschweig  
Bundesallee 100  
38116 Braunschweig

The publication of extracts of the accreditation certificate is subject to the prior written approval by Deutsche Akkreditierungsstelle GmbH (DAkKS). Exempted is the unchanged form of separate disseminations of the cover sheet by the conformity assessment body mentioned overleaf.

No impression shall be made that the accreditation also extends to fields beyond the scope of accreditation attested by DAkKS.

The accreditation was granted pursuant to the Act on the Accreditation Body (AkkStelleG) of 31 July 2009 (Federal Law Gazette I p. 2625) and the Regulation (EC) No 765/2008 of the European Parliament and of the Council of 9 July 2008 setting out the requirements for accreditation and market surveillance relating to the marketing of products (Official Journal of the European Union L 218 of 9 July 2008, p. 30). DAkKS is a signatory to the Multilateral Agreements for Mutual Recognition of the European co-operation for Accreditation (EA), International Accreditation Forum (IAF) and International Laboratory Accreditation Cooperation (ILAC). The signatories to these agreements recognise each other's accreditations.

The up-to-date state of membership can be retrieved from the following websites:

EA: [www.european-accreditation.org](http://www.european-accreditation.org)

ILAC: [www.ilac.org](http://www.ilac.org)

IAF: [www.iaf.nu](http://www.iaf.nu)

# Deutsche Akkreditierungsstelle GmbH

## Annex to the Accreditation Certificate D-PL-20966-02-02 according to DIN EN ISO/IEC 17025:2018<sup>1</sup>

**Valid from: 16.07.2020**

Date of issue: 17.09.2020

Holder of certificate:

**ap-qualifizierung GmbH  
Lembergstraße 17, 72766 Reutlingen**

**Field:** Medical devices and the Directive 93/42/EEC<sup>2</sup> and 90/385/EEC<sup>3</sup>

**Testing fields/test items:** Microbiological-hygienic testing of medical devices as well as sterile barrier and packaging systems and physical testing of sterile and packaging systems; Environmental monitoring

This document is a translation. The definitive version is the original German annex to the accreditation certificate.

Abbreviations used: see last page

*The certificate together with its annex reflects the status at the time of the date of issue. The current status of the scope of accreditation can be found in the database of accredited bodies of Deutsche Akkreditierungsstelle GmbH.  
<https://www.dakks.de/en/content/accredited-bodies-dakks>*

Annex to the accreditation certificate D-PL-20966-02-02

| Testing area  | Test subject<br>Product(category)                | Type of testing<br>Test  | Regulatory requirement<br>Test method  |
|---|--|--|--|
| Microbiological-hygienic tests  | Medical devices                                  | Test for Sterility<br>- Membrane filtration<br>- Direct inoculation  | DIN EN ISO 11737-2<br>T-301-SOP<br><br>In addition:<br>Ph. Eur. 2.6.1  |
|   | Sterile barrier and packaging systems, materials | Examinations as part of proof of compliance<br><br>- Microbiological barrier using „Exposure chamber method“                     | DIN EN ISO 11607-1<br>ASTM F1608<br>T-303-SOP  |
| Physical tests  | Sterile barrier and packaging systems, materials | Examinations as part of proof of compliance<br><br>- Rip-off<br><br>- Seal strength<br><br>- Integrity of sterile barrier system | DIN EN ISO 11607-1<br><br>DIN EN 868-5<br>T-304-SOP<br><br>DIN EN 868-5<br>T-304-SOP<br><br>ASTM F1929<br>ASTM F3039<br>ASTM F1886/F1886M<br>T-302-SOP |
| <b>Environmental monitoring in the manufacture and testing of the cleanliness of the products in accordance with DIN EN ISO 13485:2012<sup>4</sup> / DIN EN ISO 13485:2016<sup>5</sup>, paragraph 6.4 and paragraph 7.5</b> |  |  |  |
| Microbiological-hygienic tests  | Medical devices                                  | Determination of a population of microorganisms on products (Bioburden)  | DIN EN ISO 11737-1<br>Ph. Eur. 2.6.12<br>T-400-SOP   |
|   |  | Bacterial Endotoxins   | Ph. Eur. 2.6.14<br>Ph. Eur. 5.1.10<br>T-410-SOP  |

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|---|-----------------------------------|---|---|
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| Microbiological-hygienic tests  | air                               | Microbiological count of air<br>- Air sampling<br>- Sedimentation   | DIN EN ISO 14698-1<br>DIN EN ISO 14698-2<br>DIN 1946-4<br>T-110-SOP<br>T-210-SOP<br>T-211-SOP<br><br>In addition:<br>VDI 2083 Blatt 3   |
|   | surface                           | Counting of viable aerobic germs (on surface)   | DIN EN ISO 14698-1<br>DIN EN ISO 14698-2<br>DIN 1946-4<br>T-211-SOP<br><br>In addition:<br>VDI 2083 Blatt 3   |
| Physical tests  | air                               | Testing of compressed air<br>- Contamination and cleanroom class<br>- Oil aerosol content<br>- Test methods for measurement of humidity | ISO 8573-1<br>T-110-SOP<br><br>ISO 8573-2<br>T-110-SOP<br><br>ISO 8573-3<br>T-110-SOP   |
|   |                                   | Cleanroom monitoring  | DIN EN ISO 14644-1<br>DIN EN ISO 14644-2<br>DIN EN ISO 14644-3<br>DIN EN ISO 14644-4<br>T-110-SOP<br>T-111-SOP<br><br>In addition:<br>DIN 1946-4<br>VDI 2083 Blatt 3<br>VDI 6022 Blatt 1<br>EU- GMP guideline,<br>Annex 1 |

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|---|-----------------------------------|--|---------------------------------------|
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| Physical tests  | Microbiological safety cabinets   | Performance criteria for microbiological safety cabinets | DIN EN 12469<br>T-120-SOP             |

## Regulations

|                            |  |
|----------------------------|--|
| DIN EN 868-5 : 2009-09     | Packaging for terminally sterilized medical devices - Part 5: Sealable pouches and reels of porous materials and plastic film construction - Requirements and test methods |
| DIN 1946-4:2016-04         | Ventilation and air conditioning - Part 4: Ventilation in buildings and rooms of health care   |
| ISO 8573-1:2010-04         | Compressed air - Part 1: Contaminants and purity classes   |
| ISO 8573-2:2018-02         | Compressed air - Contaminant measurement - Part 2: Oil aerosol content   |
| ISO 8573-3:1999-06         | Compressed air - Part 3: Test methods for measurement of humidity  |
| DIN EN ISO 11607-1:2017-10 | Packaging for terminally sterilized medical devices - Part 1: Requirements for materials, sterile barrier systems and packaging systems                                    |
| DIN EN ISO 11737-1:2009-11 | Sterilization of health care products - Microbiological methods - Part 1: Determination of a population of microorganisms on products                                      |
| DIN EN ISO 11737-2:2010-04 | Sterilization of medical devices - Microbiological methods - Part 2: Tests of sterility performed in the definition, validation and maintenance of a sterilization process |
| DIN EN ISO 12469:2000-09   | Biotechnology - Performance criteria for microbiological safety cabinets   |
| DIN EN ISO 14644-1:2016-06 | Cleanrooms and associated controlled environments - Part 1: Classification of air cleanliness by particle concentration  |
| DIN EN ISO 14644-2:2016-05 | Cleanrooms and associated controlled environments - Part 2: Monitoring to provide evidence of cleanroom performance related to air cleanliness by particle concentration   |

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|                            |   |
|----------------------------|---|
| DIN EN ISO 14644-3:2006-03 | Cleanrooms and associated controlled environments - Part 3: Test methods  |
| DIN EN ISO 14644-4:2003-06 | Cleanrooms and associated controlled environments - Part 4: Design, construction and start up   |
| DIN EN ISO 14698-1:2004-04 | Cleanrooms and associated controlled environments - Biocontamination control - Part 1: General principles and methods                               |
| DIN EN ISO 14698-2:2004-02 | Cleanrooms and associated controlled environments - Biocontamination control - Part 2: Evaluation and interpretation of biocontamination data       |
| ASTM F1608 - 16            | Standard Test Method for Microbial Ranking of Porous Packaging Materials (Exposure Chamber Method)  |
| ASTM F1929 - 15            | Standard Test Method for Detecting Seal Leaks in Porous Medical Packaging by Dye Penetration  |
| ASTM F3039 - 15            | Standard Test Method for Detecting Seal Leaks in Nonporous Medical Packaging by Dye Penetration   |
| ASTM F1886 / F1886M - 16   | Standard Test Method for Determining Integrity of Seals for Flexible Packaging by Visual Inspection   |
| EG-Leitfaden GMP, Anhang 1 | EU GMP Annex 1: Manufacture of Sterile Medicinal Products - revision November 2008  |
| Ph. Eur. 9, 2.6.1          | Test for Sterility  |
| Ph. Eur. 9, 2.6.12         | Microbiological examination of non-sterile products (total viable aerobic count)  |
| Ph. Eur. 9, 2.6.14         | Bacterial Endotoxins  |
| Ph. Eur. 9, 5.1.10         | Guidelines for using the test for bacterial endotoxins  |
| VDI 2083 Blatt 3:2004-01   | Cleanroom technology – Metrology and test methods   |
| VDI 6022 Blatt 1           | Ventilation and indoor-air quality - Hygiene requirements for ventilation and air-conditioning systems and units (VDI Ventilation Code of Practice) |
| T-110-SOP_2018-05-07       | Clean Room Monitoring   |
| T-111-SOP_2018-05-07       | Counting airborne particles for classification  |
| T-120-SOP_2018-05-07       | Testing of safety workbenches   |
| T-210-SOP_2018-05-07       | Microbiological testing of air  |
| T-211-SOP_2018-05-07       | Microbiological testing of surfaces   |
| T-301-SOP_2018-04-17       | Test for Sterility of medical devices   |

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|                      |  |
|----------------------|--|
| T-302-SOP_2018-05-07 | Checking of sealings                   |
| T-303-SOP_2018-05-07 | Microbiological Dusting                |
| T-304-SOP_2018-05-07 | Checking for peelability               |
| T-400-SOP_2018-04-17 | Bioburden                              |
| T-410-SOP_2018-05-07 | Bacterial Endotoxins (Gel clot method) |

**Abbreviations used**

|           |  |
|-----------|--|
| ASTM      | American Society for Testing and Materials                                 |
| DIN       | Deutsches Institut für Normung e.V. (German Institute for Standardization) |
| EN        | Europäische Norm (European standard)                                       |
| ISO       | International Organization for Standardization                             |
| Ph. Eur.  | European Pharmacopoeia   |
| T-xxx-SOP | SOP from ap-qualifizierung GmbH  |
| VDI       | Verein Deutscher Ingenieure (Association of German Engineers)              |

<sup>1</sup> DIN EN ISO/IEC 17025:2018 General requirements for the competence of testing and calibration laboratories

<sup>2</sup> COUNCIL DIRECTIVE 93/42/EEC of 14 June 1993 concerning medical device

<sup>3</sup> COUNCIL DIRECTIVE of 20 June 1990 on the approximation of the laws of the Member States relating to active implantable medical devices (90/385/EEC)

<sup>4</sup> DIN EN ISO 13485:2012-11 Medical devices - Quality management systems - Requirements for regulatory purposes

<sup>5</sup> DIN EN ISO 13485:2016-08 Medical devices - Quality management systems - Requirements for regulatory purposes

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- <sup>1</sup> DIN EN ISO/IEC 17025 : 2018-03 General requirements for the competence of testing and calibration laboratories
- <sup>2</sup> Council Directive 93 / 42 / EEC of 14 June 1993 concerning medical devices
- <sup>3</sup> Council Directive 90/385/EEC of 20 June 1990 on the approximation of the laws of the Member States relating to active implantable medical devices
- <sup>4</sup> DIN EN ISO 13485 : 2016-08 Medical devices - Quality management system

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