



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

THE MICROSTAR LAB, LTD.
130 Erick Street
Crystal Lake, IL 60014
Judy LaZonby Phone: 815 526 0954

BIOLOGICAL

Valid To: August 31, 2015

Certificate Number: 2832.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following microbiological testing on military products, aircraft components, building materials, textiles, paints and coatings, paper, plastics and polymers and telecommunication components:

Test Method(s)

Test

MIL STD 810 C Method 508.2
MIL STD 810 D Method 508.3
MIL STD 810 E Method 508.4
MIL STD 810 F Method 508.5
MIL STD 810 G Method 508.6

Military Standard Fungus Resistance

RTCA/DO-160 D Section 13
RTCA/DO-160 E Section 13
RTCA/DO-160 F Section 13
RTCA/DO-160 G Section 13

Fungus Resistance Testing for Airborne Equipment

ASTM C 1338

Fungus Resistance of Insulation Materials and Facings

ASTM D 3273

Resistance to the Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber

ASTM G 21

Resistance of Synthetic Polymeric Materials to Fungi

ASTM D 5590

Resistance of Paint Films and Related Coating to Fungal Defacement by Agar Plate Assay

TAPPI T-487

Fungus Resistance to Paper and Paperboard

AATCC TM 30 Test III

Antifungal Activity of Textile Materials

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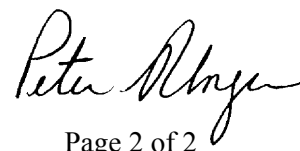
Test Methods(s)

Test

| | |
|------------------------------|---|
| ASTM E 2149 | Antimicrobial Activity of Immobilized Antimicrobial Agents Under Dynamic Conditions |
| ASTM E 1428 | Antimicrobials in or on Polymeric Solids Against Staining by <i>Streptovorticillium reticulum</i> (A Pink Stain Organism) |
| ASTM E 2180 | Incorporated Antimicrobial Agent(s) in Polymeric or Hydrophobic Materials |
| ASTM D 2574 | Resistance of Emulsion Paints in the Container to Attack by Microorganisms |
| AATCC TM 100 | Antibacterial Finishes on Textile Materials |
| AATCC TM 174 Part I, II, III | Antimicrobial Activity Assessment of Carpets |
| JIS Z 2801 | Antimicrobial Activity and Efficacy of Antibacterial Products |
| ISO 22196 | Antibacterial Activity of Plastics and Other Non-porous Surfaces |
| ASTM D7855/D7855M | Standard Test Method for Determination of Mold Growth on Coated Building Product Designed for Interior Applications Using an Environmental Chamber and Indirect Inoculation |

Key:

| | |
|----------|--|
| AATCC TM | = American Association of Textile Chemists and Colorists Test Method |
| ASTM | = ASTM International |
| JIS | = Japanese Industrial Standard |
| MIL-STD | = Military Standard |
| RTCA | = Radio Technical Commission for Aeronautics |
| TAPPI | = Technical Association of the Pulp and Paper Industry |
| ISO | = International Organization for Standardization |





American Association for Laboratory Accreditation

Accredited Laboratory

A2LA has accredited

THE MICROSTAR LAB, LTD.

Crystal Lake, IL

for technical competence in the field of

Biological Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 *General Requirements for the Competence of Testing and Calibration Laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (*refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009*).

Presented this 23rd day of July 2013.





President & CEO

For the Accreditation Council
Certificate Number 2832.01
Valid to August 31, 2015

For the tests to which this accreditation applies, please refer to the laboratory's Biological Scope of Accreditation.