



## BioClean-D™ Lab Coat - Sterile S-BDLC

# Lightweight sterile garment, specially designed for protective use in cleanroom environments

- **Elevated comfort:** The BioClean-D™ Lab Coat Sterile S-BDLC is a sterile protective garment designed using low-linting, lightweight material, minimizing contamination risk while affording comfortable, easy-to-wear personal protection
- **ESD properties:** As it features antistatic-coated fabric, the risk of electrostatic damage or interference is greatly reduced
- **Genuine convenience:** This sterile BioClean-D™ antistatic garment also boasts three deep pockets, press stud fastenings and open cuffs
- **Sterility assurance:** In addition, the hood is sterilized by gamma irradiation, with sterility assurance level (SAL) of 10<sup>-6</sup>



### Key Features and Benefits

- **Low-linting lightweight fabric:** Fewer contamination risks
- **Antistatic-coated:** Controlled electrostatic dissipation
- **Press stud fastenings and deep pockets:** Added convenience, easy donning

### Industries

- Laboratory and Research
- Laboratory Maintenance & Clean-Up
- Laboratory Research and Development
- Veterinary Services





# BioClean-D™ Lab Coat - Sterile S-BDLC

## TECHNICAL DATA SHEET

### PRODUCT INFORMATION

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Material                   | CleanTough™                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Audit Standards            | Manufacturing QMS Audit Standards ISO 9001, PPE Regulation 2016 425 Module D                                                                                                                                                                                                                                                                                                                                                                               |
| Standards                  | ASTM F739, Partial Body Protection Only, CE 0598, EN 1149-5:2018, EN 13934-1, EN 13935-2, EN 6530, EN 7854, EN 863, EN 9073-4, EN ISO 13688:2013+A1:2021, EN ISO 14325, ISO 11137-1:2006, Category III, EN 13034:2005 + A1:2009                                                                                                                                                                                                                            |
| Packaging Overview         | One piece per sealed inner PE bag; one inner bag per sealed outer PE bag; 30 outer bags per lined carton (30 pieces)<br><b>More sustainable packaging:</b> Packed in recyclable plastic packaging and delivered in recycled cardboard shipper cases. Inner and outer bags and liner are made from polyethylene (PE) based film. Always check your local recyclable status as these materials may not be considered suitable for recycling in your location |
| Storage                    | Keep away from direct sunlight; store in a dry place and keep in the original packaging. Keep away from ozone sources. If products are properly stored, as indicated, they won't lose their performances or change characteristics significantly. If products could be affected by ageing or storage, the expiry date is mentioned on the packaging materials.                                                                                             |
| Country Of Origin          | China                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Sterilization Method       | GAMMA irradiation (25 kGy)                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Sterilization Minimum Dose | 25kGy                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Sterility Assurance Level  | 10 <sup>-6</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Cleanroom Class            | Class 10/ISO Class 4 & EU GMP Grade A/B and other sterile cleanrooms                                                                                                                                                                                                                                                                                                                                                                                       |
| Shelf Life                 | Three (3) years from date of manufacture.                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Construction               | Bound seams with single needle stitching                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Characteristics            | *NOTE: BioClean CleanTough material is static dissipative and, with a charge half decay time of 0.07 sec, and so are ideal for use in a static-safe environment.                                                                                                                                                                                                                                                                                           |

### PARTICLE SHEDDING TEST RESULTS

| TEST                                 | RESULT                     |
|--------------------------------------|----------------------------|
| Particle Shedding (Helmke Drum Test) | ≥ 0.5Qm (counts/min) <2000 |

### ASTM F739-12 TEST METHOD RESULTS

| DRUG                     | Mean Breakthrough Time (MBT), Minutes<br>Breakthrough of the test chemical is deemed to have occurred when the permeation rate has reached 0.1 Qg/cm <sup>2</sup> /min |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CISPLATIN                | >240                                                                                                                                                                   |
| CARMUSTINE               | <6                                                                                                                                                                     |
| CYCLOPHOSAMIDE           | 217 (275,162,215)                                                                                                                                                      |
| DOXORUBICINHYDROCHLORIDE | >240                                                                                                                                                                   |
| 5-FLUOROURACIL           | >240                                                                                                                                                                   |
| METHOTREXATE             | >240                                                                                                                                                                   |
| ETOPOSIDE                | >240                                                                                                                                                                   |
| PACLITAXEL               | <10                                                                                                                                                                    |
| THIOTEPA                 | 30 (28,30,33)                                                                                                                                                          |

Results achieved under controlled laboratory conditions, by accredited external testing laboratory. \*For Bioclean D and Bioclean 2000, the chemical permeation results relates to the fabric performance for reference only. Seams and closures may have lower breakthrough times. We recommend garments with sealed seams such as Bioclean-C to be worn over the coverall for added protection against chemotherapy drugs handling.

### SIZE CHART

S-BDLC-S; Size: S, Chest: 84-92cm (33"-36"), Height: 164-170cm (5'4"-5'6")  
S-BDLC-M; Size: M, Chest: 92-100cm (36"-39"), Height: 170-176cm (5'6"-5'9")  
S-BDLC-L; Size: L, Chest: 100-108cm (39"-42"), Height: 176-182cm (5'9"-6'0")  
S-BDLC-XL; Size: XL, Chest: 108-116cm (42"-45"), Height: 182-188cm (6'0"-6'2")  
S-BDLC-2XL; Size: 2XL, Chest: 116-124cm (45"-48"), Height: 188-194cm (6'2"-6'4")



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## MATERIAL PERFORMANCE TEST RESULTS

| TEST                                                  | RESULT         | PERFORMANCE CLASS | PERFORMANCE STANDARD |
|-------------------------------------------------------|----------------|-------------------|----------------------|
| Abrasion Resistance                                   | >10 cycles     | 1                 | EN12947-2            |
| Flex Cracking Resistance                              | >50,000 cycles | 6                 | EN ISO 7854          |
| Puncture Resistance                                   | >5 N           | 1                 | ISO 13996            |
| Trapezoidal Tear Resistance Cross Direction (CD)      | >10 N          | 1                 | EN ISO 9073-4        |
| Trapezoidal Tear Resistance Machine Direction (MD)    | >10 N          | 1                 | EN ISO 9073-4        |
| Tensile Strength Cross Direction (CD)                 | >30 N          | 1                 | EN ISO 13934-1       |
| Tensile Strength Machine Direction (MD)               | >30 N          | 1                 | EN ISO 13934-1       |
| Repellence to Liquids - 30% H <sub>2</sub> O          | >90%           | 3                 | ISO 6530             |
| Repellence to Liquids - 10% NaOH                      | >90%           | 3                 | ISO 6530             |
| Repellence to Liquids - O-Xylene                      | >80%           | 2                 | ISO 6530             |
| Repellence to Liquids - Butan-1-ol                    | >90%           | 3                 | ISO 6530             |
| Penetration by Liquids - 30% H <sub>2</sub> O         | <1%            | 3                 | ISO 6530             |
| Penetration by Liquids - 10% NaOH                     | <1%            | 3                 | ISO 6530             |
| Penetration by Liquids - O-Xylene                     | <1%            | 3                 | ISO 6530             |
| Penetration by Liquids - Butan-1-ol                   | <1%            | 3                 | ISO 6530             |
| Seam Strength <sup>2</sup>                            | >50 N          | 2                 | ISO 13935-2          |
| Electrostatic Charge Half Decay Time, t <sub>50</sub> | PASS           | N/A               | EN1149-3             |

1. Seam not destroyed  
2. The material is static dissipative. Tested in accordance with EN1149-5.

## ORDERING INFORMATION

|        | SIZE        | S, M, L, XL, 2XL                                    |
|--------|-------------|-----------------------------------------------------|
| S-BDLC | REORDER NO. | S-BDLC-S, S-BDLC-M, S-BDLC-L, S-BDLC-XL, S-BDLC-2XL |

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## Performance Standards and Regulatory Compliance



CE 0598



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