



BioClean-D™ Lab Coat BDLC

Non-sterile protective garment, specially designed for cleanroom environments

- **Elevated comfort:** The BioClean-D™ Lab Coat BDLC is a non-sterile protective garment made from lightweight, low-linting fabric, reducing contamination risk while offering comfortable, easy-to-wear personal protection
- **ESD properties:** Its material is antistatic-coated, minimizing the risk of electrostatic damage or interference
- **Genuine convenience:** This BioClean-D™ non-sterile antistatic garment features three deep pockets, press stud fastenings and open cuffs

Key Features and Benefits

- ◊ **Lightweight low-linting material:** Lower contamination risks
- ◊ **Antistatic-coated:** Controlled electrostatic dissipation
- ◊ **Deep pockets and press stud fastenings:** Easy donning, added convenience



Industries

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





BioClean-D™ Lab Coat BDLC

TECHNICAL DATA SHEET

PRODUCT INFORMATION

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, 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) More sustainable packaging: 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.
Cleanroom Class	Class 10/ISO 4
Shelf Life	5 years
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)	$\geq 0.5\mu\text{m}$ (counts/min) <2000

ASTM F739-12 TEST METHOD RESULTS

DRUG	Mean Breakthrough Time (MBT), Minutes Breakthrough of the test chemical is deemed to have occurred when the permeation rate has reached $0.1 \mu\text{g}/\text{cm}^2/\text{min}$
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

BDLC-S; Size: S, Chest: 84-92cm (33"-36"), Height: 164-170cm (5'4"-5'6")
BDLC-M; Size: M, Chest: 92-100cm (36"-39"), Height: 170-176cm (5'6"-5'9")
BDLC-L; Size: L, Chest: 100-108cm (39"-42"), Height: 176-182cm (5'9"-6'0")
BDLC-XL; Size: XL, Chest: 108-116cm (42"-45"), Height: 182-188cm (6'0"-6'2")
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	EN 12947-2
Flex Cracking Resistance	>50,000 cycles	6	EN ISO 7854
Puncture Resistance	>5 N	1	ISO 13996
Trapezoidal Tear Resistance Cross Direction (CD)	EN ISO 9073-4	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 ₂ SO ₄	>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 ₂ SO ₄	<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 ²	>50 N	2	ISO 13935-2
Electrostatic Charge Half Decay Time, t ₅₀ (secs)	PASS		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
BDLC	REORDER NO.	BDLC-S, BDLC-M, BDLC-L, BDLC-XL, BDLC-2XL

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Performance Standards and Regulatory Compliance



CE 0598



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