



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

DDL, INC.¹
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Eden Prairie, MN 55344
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MECHANICAL

Valid To: May 31, 2021

Certificate Number: 3561.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory at the location listed above as well as the two satellite laboratory locations listed below to perform the following tests on shipping containers, medical pouches, medical trays, and medical devices:

<u>Test</u>	<u>Test Method</u>
Medical Connectors Testing – General	ISO 594-1
Gauging	
Liquid Leakage	
Air Leakage	
Separation Force	
Stress Cracking	
Medical Connectors Testing – Lock Fittings	ISO 594-2
Liquid Leakage	
Air Leakage	
Separation Force	
Unscrewing Torque	
Ease of Assembly	
Resistance to Overriding	
Stress Cracking	
Small-bore Connectors for Liquids and Gases in Healthcare Applications – Common Test Methods	ISO 80369-20
Leakage by Pressure Decay	
Falling Drop Positive-Pressure Liquid Leakage	
Subatmospheric-Pressure Air Leakage	
Stress Cracking	
Resistance to Separation from Axial Load	
Resistance to Separation from Unscrewing	
Resistance to Overriding	
Disconnection by Unscrewing	
Dye Leak Penetration	ASTM F1929
Dye Leak, Non-Porous Packaging	ASTM F3039
Bubble Leak	ASTM F2096
Burst	ASTM F1140
Burst with Restraining Plate	ASTM F2054

<u>Test</u>	<u>Test Method</u>
Visual Inspection	ASTM F1886
Peel	ASTM F88
Distribution Testing	ASTM D4169
Altitude	ASTM D6653
Drops	ASTM D5276
Dart Impact	ASTM D6344
Bridge Impact	ASTM D5265
Random Vibration	ASTM D4728
Repetitive Shock – Rotary Vibration	ASTM D999
Repetitive Shock – Linear Vibration	ASTM D999
Compression	ASTM D642
Impact Test for Pallets	ASTM D880
Shock Tester	ASTM D5487
Mechanical Handling - Pallets	ASTM D6055
Fork Lift Drops/Tip Test - Pallets	ASTM D6179
Performance Testing of Packages for Single Parcel Delivery Systems	ASTM D7386
Package-Products <150 lbs	ISTA 1A
Package-Products >150 lbs	ISTA 1B
Extended Testing for Package-Products <150 lbs	ISTA 1C
Extended Testing for Package-Products >150 lbs	ISTA 1D
Unitized Loads of Same Product	ISTA 1E
Packaged-Products <150 lbs (Random Vibration)	ISTA 1G
Packaged-Products >150 lbs (Random Vibration)	ISTA 1H
Package-Products <150 lbs	ISTA 2A
Package-Products >150 lbs	ISTA 2B
Furniture Packages	ISTA 2C
Packaged-Product for Parcel Delivery System Shipment <150 lbs	ISTA 3A
Packaged Products for Less Than Truckload	ISTA 3B
Unitized Loads of Same Product	ISTA 3E
Packaged Products for Distribution Center to Retail Outlet Shipment 100lb	ISTA 3F
Products or packaged Products in Mechanically Handled Bulk Transport Container	ISTA 3H
Packaged Products for Shipment in known Distribution Channels	ISTA 4AB
Packaged Products for Sam's Club Distribution Shipments	6-Sam's Club
Heavy/Bulky Packaged Product for Amazon Distribution Shipments	6-Amazon.com-B
FEDEX Procedure for Testing Packaged Products <150	ISTA 6-FEDEX-A
FEDEX Procedure for Testing Packaged Products >150	ISTA 6-FEDEX-B

<u>Test</u>	<u>Test Method</u>
Environmental Conditioning	
Packages or Packaging Components	ASTM D4332
Packaging Systems for Single Parcel Delivery	ASTM F2825
Accelerated Aging of Sterile Barrier Systems	ASTM F1980
Plastics	ASTM D618
Complete, Filled Transport Packages and Unit Loads	ISO 2233
Temperature Test for Transport Packaging	ISTA 7D, ISTA 2A

¹This accreditation also covers testing performed at the following satellite laboratories listed below:

DDL, INC.²
5411 Opportunity Court
Minnetonka, MN 55343

<u>Test</u>	<u>Test Method</u>
Temperature and Humidity:	ASTM F1980, ASTM F2825, ASTM D618,
Temperature Range: -65C to 120C;	ASTM D4332; ISTA 7D, ISTA 2A; ISO 2233
Humidity Range: RH 5% to 95%	
Altitude	ASTM D6653

DDL, INC.²
5405 Opportunity Court
Minnetonka, MN 55343

<u>Test</u>	<u>Test Method</u>
Temperature and Humidity	ASTM F1980
Temperature Range: -23C to 45C	
Humidity Range: RH 50% to 75%	

²This laboratory also uses customer supplied specifications and/or methods directly related to the types of tests and within the parameters listed above.





Accredited Laboratory

A2LA has accredited

DDL, INC.

Eden Prairie, MN

for technical competence in the field of

Mechanical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *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 April 2017*).



Presented this 30th day of April 2019.

A blue ink signature of the Vice President of Accreditation Services.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 3561.01
Valid to May 31, 2021

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