HighQ Testing, LLC

Performance
Validation
Integrity

REPORT TO:	PackagingSupplies.com 1120 W. 130th St Brunswick, Ohio. 44212
ATTENTION:	James Stalker
PROJECT:	Biological Substance Category B Packaging
PROJECT NUMBER:	H20720-125
LAB NUMBER:	HQE3
DATE:	March 30th, 2020
IDENTIFIER:	Category B Specimen Kit

Biological Substance Category B Package Testing was completed on one type of combination package in accordance with standard laboratory practices and referenced test methods. The results of the test are presented in the accompanying report. The results contained in this report are related only to the items tested.

Please contact HighQ should you have any questions concerning this report.
Respectfully submitted,

Barry E. Johnston
HighQ, LLC

SCOPE OF SERVICE
On March 26th, 2020, the following package was submitted to HighQ, LLC for Biological Substance Category B package testing.

Description of Packaging

Primary Receptacle:

Description:	10mL Vacutainer
Manufacturer.:	Becton Dickenson
Material:	HDPE
Closure Type:	Friction Fit Top
Dimensions:	15.3mm x 106.1mm
Quantity:	5
Tare Weight:	9.5 Grams Each – 47.5 Grams Combined
Weight as Tested:	20.1 Grams Each – 100.5 Grams Combined

Absorbent:

Description:	Absorbent Sheet
Material:	Absorbent Polymers Mixed with Paper Pulp
Dimensions:	2” x 3”
Quantity:	1
Tare Weight:	.3 Grams

Secondary Container:

Description:	95kPa Specimen Bag
Material:	LDPE
Closure Type:	Adhesive Seal
Dimensions:	6” x 9”
Quantity:	1
Tare Weight:	18 Grams

Outer Packaging:

Description:	Kit Box
Material:	Corrugated Cardboard/Fiberboard
Closure Type:	Tuck Type
External Dimensions:	7 3/4” x 5 3/8” x 2 1/4"
Quantity:	1
Tare Weight:	71.8 Grams

Weight as Tested:

TEST PROCEDURE

Packages were prepared in an environment of approximately 22°C. Inner receptacles were filled with liquid to 98% capacity, package was sealed, then the components and kit boxes were subjected to the tests outlined below.

Drop Test

Per title 49 CFR, Section 173.4(a)6(i) at a height of 1.2 meters.

Drop Test	Results
Flat on to Base	Pass
Flat on to Top	Pass
Flat on to Longest Side	Pass
Flat on to Shortest Side	Pass
on to a Corner	Pass

95 kPa Pressure Test

Per ICAO/IATA DGR, Sections 6.3.5, 5.0.2.9 and Title 49 CFR, Section 178.605. 95kPa Specimen Bag meets 95kPa requirement.

Leakproofness Test

Test Method: Secondary containers are filled with liquid and observed for leakage during the 30-minute test period.

10mL BD Vacutainer	Results
Sample 1	Pass
Sample 2	Pass
Sample 3	Pass

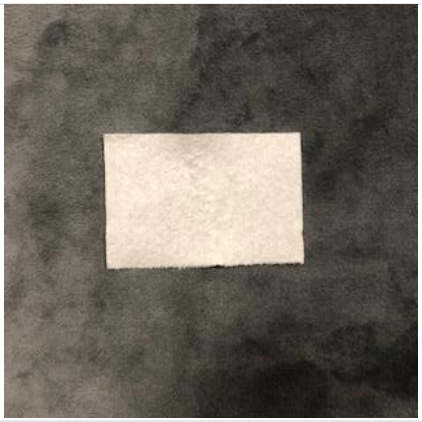
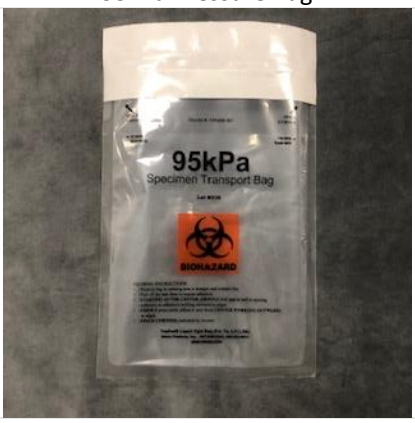
Absorbent

Absorbent is sufficient in absorbing entire contents of primary receptacles.

CONCLUSION

Results of this testing conclude that this packaging does meet the ICAO/IATA Packaging Instruction 650 and U.S. Department of Transportation 49 CFR 173.199 criteria for shipping a liquid Biological Substance Category B or Patient Specimen via Ground and Air Transport. These components are to be used according to the manufacturer's guidelines for capacities and closing instructions. Any variations of components from those specified in this report may invalidate this report.

Photos

10mL BD Vacutainer	Absorbent
	
95kPa Pressure Bag	Box Open
	
Box Closed