

# CORNING

## Glass Certification

Corning Pharmaceutical Glass, LLC  
 563 Crystal Ave  
 Vineland, NJ 08360 US  
 (856) 794-7100

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Delivery No. / Date  
 83008729 / 02/01/2019

TO:  
 ACME VIAL & GLASS CO  
 1601 COMMERCE WAY  
 PASO ROBLES, CA 93446 US  
 805-239-2666  
 lisa@acmevial.com

Item	Article	Pallet ID	Sales Ord. Pal Qty	Cust. PO # Batch	Quantity ProdOrd	UOM
010	9014651000 C51-V, 14.65MMOD X 1.00MMWW X 60"		3017909	4291 Corning® 51-V CLEAR	6,720.0 GTSPHV	LB
	PALLET ID: 0116190840318		2,240.0 LB	JAN1902199	36044728	
	0116191153518		2,240.0 LB	JAN1902209	36044728	
	0116191409418		2,240.0 LB	JAN1902218	36044728	
020	9025001014 C51-V, 25.00MMOD X 1.30MMWW X 60"		3017910	4306 Corning® 51-V CLEAR	7,797.6 GTSPHV	LB
	PALLET ID: 0123192009316		1,949.4 LB	JAN1903159	36044870	
	0123192256516		1,949.4 LB	JAN1903164	36044870	
	0124190149316		1,949.4 LB	JAN1903171	36044870	
	0124190430216		1,949.4 LB	JAN1903178	36044870	
030	9016751008 C51-V, 16.75MMOD X 1.10MMWW X 60"		3017911	4307 Corning® 51-V CLEAR	4,082.4 GTSPHV	LB
	PALLET ID: 0125190918418		2,041.2 LB	JAN1903324	36044869	
	0125191058218		2,041.2 LB	JAN1903330	36044869	
040	9022501014 C51-V, 22.50MMOD X 1.30MMWW X 1524MM		3017912	4279 Corning® 51-V CLEAR	2,262.0 GTSPHV	LB
	PALLET ID: 1031181626216		2,262.0 LB	OCT1804327	36044555	
050	9014753026 C51-L, 14.75MMOD X 1.00MMWW X 60"		3017913	4272 Corning® 51-L AMBER	2,446.2 GTSPHV	LB
	PALLET ID: 1023180405510		2,446.2 LB	OCT1803004	36044474	
060	9020503005 C51-L, 20.50MMOD X 1.20MMWW X 60"		3017913	4272 Corning® 51-L AMBER	4,440.0 GTSPHV	LB
	PALLET ID: 1019181535110		2,220.0 LB	OCT1802518	36044476	
	1019182317010		2,220.0 LB	OCT1802541	36044476	
070	9024501007 C51-V, 24.50MMOD X 1.10MMWW X 66"		3017908	4281 Corning® 51-V CLEAR	1,792.8 GTSPHV	LB
	PALLET ID: 1107182141416		1,792.8 LB	NOV1800912	36044638	
080	10003 0006020 00000 PALLET, CHR, HT, 48X40X5.56, TUBE, SPEC				14	EA

Certificate of Conformity

Glass Tubing manufactured in  
 Vineland, New Jersey in the United States of America

Corning® 33 Type I CLEAR Borosilicate Tubing, Corning® 51-V Type I CLEAR Borosilicate Tubing, and Corning® 51-L Type I AMBER Borosilicate Tubing are produced in accordance with ISO 9001:2015 and ISO 15378:2015 quality Standards with the following conformance statements:

I. USP/EP/JP - TYPE I GLASS GRAINS

Corning clear (flint) and amber tubing is made of Type I Borosilicate glass and meets the requirements of the glass grains test according to the most current editions of the United States Pharmacopeia or USP <660>, European Pharmacopoeia or EP (3.2.1 B), and any other Pharmacopoeias, which are in accordance with USP or EP definitions of Type I Glass as per glass grains method. The glass conforms to JP

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7.01 Test for Glass Containers for injections, (3) Soluble Alkali test, Method 1.

### II. USP/EP - TYPE I ARSENIC

Arsenic in Corning clear (flint) and amber glass tubing extraction solution is less than the 0.1 µg/g (USP) or 0.1 ppm (EP). This extract test is performed for process control of the tubing and it is based on the requirements of the most current editions of the USP <660> Arsenic, USP <211> and EP (3.2.1) for finished containers. Arsenic compounds are not introduced into the batch as raw materials.

### III. USP/EP - SPECTRAL TRANSMISSION FOR COLORED GLASS CONTAINERS (LIGHT TRANSMISSION)

For Corning® 51-L Type I AMBER Tubing a process target % for spectral transmission is maintained between 290 and 450 nm to optimized compliance to USP <660> and EP (3.2.1) Spectral Transmission of Colored Glass Containers (Amber Light Transmission) on ISO vials and ampoules or standard nominal volume to wall weight containers. This requirement is based on the finished container after proper conversion and annealing.

### IV. CONEG, EU DIRECTIVE ON PACKAGING WASTE - HEAVY METALS

Content of Pb, Cd, Hg, Cr VI is considerably below the combined limit values of 100 ppm (parts per million) by weight for US CONEG / TPCH and 94/62/EC regulations. Pb, Cd, Hg, Cr VI compounds are not introduced to the glass.

### V. TRANSMISSIBLE SPONGIFORM ENCEPHALOPATHY (TSE) AND BOVINE SPONGIFORM ENCEPHALOPATHY (BSE)

Corning clear (flint) and amber glass tubing, anti-scratch coating when applied, is of non-animal origin (bovine, ovine, caprine), eliminating any risk of TSE/BSE transmission from the tubular glass or coating composition.

### VI. ASTM CERTIFICATION - CLASS A AND CLASS B

Corning® 33 Type I CLEAR Tubing meets the requirements for Type I, Class A, per current ASTM E438 - 92 Standard Specification for Glass in Laboratory Apparatus.

Corning® 51-V Type I CLEAR Tubing meets the requirements for Type I, Class B, per current ASTM E438 - 92 Standard Specification for Glass in Laboratory Apparatus.

### VII. PRODUCT

Corning clear (flint) and amber glass tubing conforms to the technical specifications agreed with the customer and was controlled according to the applicable standards (procedures, criteria and methods) outlined under the quality specifications.

### VIII. DECLARATION OF NON-MANUFACTURED WOOD PACKING MATERIAL

It is declared that this shipment of Corning clear (flint) or amber Type I borosilicate glass tubing complies with International Standard for Phytosanitary Measures ISPM #15 for Heat-Treated Non-manufactured Wood Packing Materials, and are marked "IPPC US 162034 HT TP" per export requirements.

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### IX. GLASS PRODUCT NOMENCLATURE

The following glass types are equivalent based on prior Product Glass Type naming convention.

Current	Former
Corning® 51-V CLEAR	Gx51-V or N51A
Corning® 51-L AMBER	Gx51-L or A203
Corning® 33 CLEAR	Gx33 or KG33
Corning® 51-D CLEAR (Pisa)	Gx51-D or C101
Corning® 51-A AMBER (Pisa)	Gx51-A or KI201
Corning® 51-V CLEAR (Pisa)	Gx51-V

### X. CORNING PHARMACEUTICAL GLASS PISA ITALY ORIGINATION DECLARATION

Glass produced in Pisa, Italy, stored in Vineland New Jersey, is certified by Pisa, Italy. The certification for Pisa, Italy produced glass is kept on file in Vineland New Jersey. Documents provided will indicate PISA produced material origination.

Corning® 51-D CLEAR (Pisa)  
Corning® 51-A AMBER (Pisa)  
Corning® 51-V CLEAR (Pisa)

Corning Pharmaceutical Glass, LLC  
02/01/2019



John Heery - Quality Manager