Shandong Pharmaceutical Glass Co., Ltd.

Yaobo Rd.1#, Yiyuan County, Zibo, Shandong, China.



Certificate of Analysis

Article Name:			Tubular Glass Vial	Delivery Quantity:		1721250 pcs	
Made of:		Lo	ow borosilicate glass	Batch No.:		20221231	
Drawing No.(Spec.):			10MLCIS	Production Date:		20221231	
Color/Glass type:		C	lear Color, HCB Class	r. HCB Class Exp Date		20271231	
Sampling Basis:			GB2828.1-2012	Cell to be expanded:		As required	
Sample Quantity:			500	Test Basis		YBB00302002-2015	
escr	ription as per Inv	oice: EBL22					generalised and a second secon
	Test Item		Test Standard	IL	AQL	Test Result	Judgmen
Appearance	Bubble Line		Bubble lines with width larger than 0.1mm not allowed	Femore 4	0.65	0	Qualifie
	Stone(cord)		≤0.5mm			2	Qualifie
	Crack		No crack			0	Qualifie
	Black Spot		No black spots that can not be washed away			0	Qualifie
Physical and Chemical Property Dimension	Total Height		55+0.50/-0.50mm	Ţ.	1.0	54.77~55.33mm	Qualifie
	OD of Body		22.6+0.25/-0.25mm		0.65	22.48~22.75mm	Qualifie
	OD of Lip		19.8+0.25/-0.25mm		1.0	19.71~19.94mm	Qualifie
	ID of Lip		12.9+0.25/-0.25mm		1.0	12.76~13.04mm	Qualifie
	Length of Neck		3.60±0.30mm		1.0	3.36~3.77mm	Qualifie
	OD of Neck		≤16.00mm		1.0	<16.00	Qualifie
	Finish Height[to down corner]		4.00±0.20mm		1.0	3.86~4.03mm	Qualifie
	Body Length		≥42.5mm		1.0	>42.5mm	Qualifie
	Thickness of body		1.05±0.05mm	S-1	2.5	1.02~1.08mm	Qualifie
	Thickness of bottom		≥0.8mm	S-3	1.0	>0.8mm	Qualifie
	Bottom push up, t		≤1.0mm	S-3	2.5	<1.0	Qualifie
	Vertical axie deviation, a		≤1.0mm	S-3	2.5	<1.0mm	Qualifie
	COE of expansion (×10 ⁻⁶ K ⁻¹ (20-300°C)			(6.2~7.5)		6.93-7.01	Qualifie
	B ₂ O ₃			≥5%		6.86%	Qualifie
	Hydrolytic Resistance of Powered Glass at 121℃			Class 1		0.088ml/g, Class 1	Qualifie
	Hydrolytic Resistance of Powered Glass at 98℃			N.A.			
	Hydrolytic Resistance of Internal Surface			HC1/HCB Class		0.95ml, Class HCB	Qualifie
	Acid Resistance			N.A.			gar An
	Alkali Resistance			N.A.		****	vià es
	Internal Stress		≤40nm	S-1	1.5	0.nm	Qualifie
	Release of As, Sb, Pb, Cd		As≤0.1mg/L	_	, marajani.	<0.10mg/L	Qualifie
			Sb≤0.7mg/L		quine.	<0.05mg/L	Qualifie
			Pb≤1̇`Omg/L			<0.030mg/L	Qualifie
			Cd≤0.25mg/L		******	<0.010mg/L	Qualifie

Inspector: Liu Yuan



Approved by: Liu Jian