

To: Medpace Clinical Pharmacology Unit

From: Zachary Prensky, CEO - LB Pharmaceuticals

Date: May 07, 2020

RE: Clarification Memo #7

LB-102-001: A Randomized, Double-Blinded, Placebo-Controlled, Single and Multiple Ascending Dose Study to Evaluate the Safety, Tolerability, and Pharmacokinetics of LB-102 Administered Orally to Healthy Subjects

The intent of this protocol clarification memo is to provide clarification for the LB-102-001 protocol (Protocol Version 4, 08 April 2020). All items listed below will be incorporated into the next amendment. The protocol amendment will be sent after it is filed with FDA.

## Section 14.1 – Appendix 1: Clinical Pharmacology Summary Table

## **Original Wording**

		G	eneral Inforn	nation			
Chemical Structure and Major Physical and Chemical Properties	OSS HN HN HOlecular We Description		N *				
	рКа	9.36					
	Partition Coefficient (LogP)	1.72 (pH 7)					
	Aqueous Solubility	Vehicle	HPLC Area of Sample (225 nm)	Sample Concentration (mg/mL)	Calculated Solution Concentration (mg/mL)	Comment	
		30% DMF 70% pH 4.7 MES	2769	0.44	44.0	100:1 dilution, pH of buffer is unchanged	
		pH 4.7 MES Buffer	3770	0.614	61.4	100:1 dilution, pH of buffer is unchanged	

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		pH 5 HCl	4990	0.839	83.9	100:1 dilution, pH of buffer is unchanged
		pH 6 phosphate buffer	3827	0.625	625	1000:1 dilution, pH of buffer is unchanged
,		pH 5 acetate buffer	Not Determined	>800	>800	pH of solution becomes 6.5
Indication (for this IND)	For the Treatm	ent of Schizo	phrenia.			
Route and	Oral Capsule.					
Formulation Type						
(for this IND)						
Planned Strengths	LB-102 consists of API in a Size 2 white opaque/white opaque hard gelatin capsule in dosage					
(for this IND)	strengths of 25 mg and 100 mg.					

## **Revised Wording**

General Information								
Chemical Structure and Major Physical and Chemical Properties	Molecular We Description pKa Partition Coefficient (LogP) Aqueous Solubility							
		1.72 (pH 7)  Vehicle	HPLC Area of Sample (225 nm)	Sample Concentration (mg/mL)	Calculated Solution Concentration (mg/mL)	Comment		
		30% DMF 70% pH 4.7 MES pH 4.7 MES	2769	0.44	44.0	100:1 dilution, pH of buffer is unchanged 100:1 dilution, pH of		
		Buffer pH 5 HCl	3770 4990	0.614	61.4 83.9	buffer is unchanged 100:1 dilution, pH of buffer is unchanged		
		pH 6 phosphate buffer	3827	0.625	625	1000:1 dilution, pH of buffer is unchanged		



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	pH 5 acetat buffe	Determined	>800	>800	pH of solution becomes 6.5
Indication (for this IND)	For the Treatment of Sc.	nizophrenia.			
Route and Formulation Type (for this IND)	Oral Capsule.				
Planned Strengths (for this IND)	LB-102 consists of API in a Size 2 white opaque/white opaque hard gelatin capsule in dosage strengths of 25 mg, <b>50 mg</b> , <b>75 mg</b> , and 100 mg.				

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Date