

## **CERTIFICATE OF ANALYSIS**

20 Martin Ross Avenue, North York, ON, M3J 2K8, CANADA Tel: (416) 665-9696, Fax: (416) 665-4439 Email:orders.trc@lgcgroup.com Website: www.trc-canada.com

Product:   D-Gututionic Acid   Acid; Glucuronic Acid;     Structure:   Image: Construction of the system of the	. Identificatio	n				
Product:   D-Glucuronic Acid   Acid; Glucuronic Acid;     Structure:   Image: Construction of the specific Acid;   Molecular Formula:     C6H1007   Molecular Formula:   C6H1007     Molecular Formula:   C6H1007   Molecular weight:     194.14   Source of Product:   N/A     Solubility:   Aqueous Base (Slightly),   DMSO (Slightly, Heated),     Methanol (Slightly, Heated),   Methanol (Slightly, Heated),   W     Lot Number:   21-ZEA-63-1   Purity:   97%     Shipping   This Product Is Stable To Be Shipped   Storage   -20°C     Analytical Information   Storage   -20°C   -20°C     Warning 1:   Warning 2:   Warning 3:   -20°C     Analytical Information   Specifications:   Results:   -20°C     Storage   White Solid   White Solid   White Solid     VMR   Conforms to Structure   Conforms   -20°C     Additional Information   Kased on mass distribution observed. The contents of the specifications are subject to change     Additional Information:   N/A   -32.6° (c = 0.2, Water; 4.0 Hours)     Additional Information:   N/A		G596850		r: 6556-12-3		
HO2C   G6H1a7 OnHua:     G6H1a7 OnHua:   G6H1a7 OnHua:     G6H1a7 OnHua:   G6H1a7 OnHua:     G6H1a7 On   Molecular weight:     194.14   Source of Product:     N/A   Solubility:     Aqueous Base (Slightly),   DMSO (Slightly, Heated),     Methanol (Slightly, Heated),   Methanol (Slightly, Heated),     Methanol (Slightly, Heated),   Methanol (Slightly, Heated),     Marning   This Product Is Stable To Be Shipped   Storage Condition:     At Room Temperature   Storage Condition:   -20°C     Warning 1:   Warning 2:   Warning 3:     Analytical Information:   %C: 37.15, %H: 5.32     Appearance   White Solid   White Solid     VMR   Conforms to Structure   Conforms     Specific Rotation   Report Result   +32.6° (c = 0.2, Water; 4.0 Hours)     Additional Information:   N/A   subject of the analysis (ff available) may have an accc     Additional Information:   N/A   subject of the specifications are subject to change	Product: D-Glucuronic Acid		Synonym:	D-(+)-Glucuronic Acid; Glucosiduronic Acid; Glucuronic Acid;		
Horocolar weight:   194.14     Source of Product:   N/A     Solubility:   Aqueous Base (Slightly),     Aqueous Base (Slightly),   DMSO (Slightly, Heated),     Molecular weight:   194.14     Source of Product:   N/A     Solubility:   Aqueous Base (Slightly),     Aqueous Base (Slightly, Heated),   Methanol (Slightly, Heated),     Molecular weight:   97%     Shipping   This Product Is Stable To Be Shipped     Condition:   At Room Temperature     Varning 1:   Warning 2:     Warning 1:   Warning 2:     Varning 2:   Warning 3:     Appearance   White Solid     VMR   Conforms to Structure     Conforms to Structure   Conforms     Specific Rotation   Report Result   + 32.6° (c = 0.2, Water; 4.0 Hours)     Additional Information:   N/A	Structure:	HOC		Molecular Formula:		
HO   194.14     Source of Product:   N/A     Solubility:   Aqueous Base (Slightly),     N/A   Solubility:     Aqueous Base (Slightly), Heated),   Methanol (Slightly, Heated),     Methanol (Slightly, Heated),   Methanol (Slightly, Heated),     Shipping   This Product Is Stable To Be Shipped   Storage     Condition:   At Room Temperature   97%     Staning   Warning 1:   Warning 2:   Warning 3:     Analytical Information   Vertify is Stable To Structure   Vertify is Solid     Press:   Specifications:   Results:     Elemental Analysis   Conforms to Structure   Conforms     Appearance   White Solid   White Solid     VMR   Conforms to Structure   Conforms     Specific Rotation   Report Result   +32.6° (c = 0.2, Water; 4.0 Hours)     Additional Information:   N/A   Mrt is based on the analytical results of the tests performed. MRR and Elemental Analysis (if available) may have an acc				C6H10O7		
HO   COH   Source of Product:     N/A   Solubility:     Solubility:   Aqueous Base (Slightly),     Aqueous Base (Slightly), Heated),   Methanol (Slightly, Heated),     Methanol (Slightly, Heated),   Methanol (Slightly, Heated),     Methanol (Slightly, Heated),   Methanol (Slightly, Heated),     Shipping   This Product Is Stable To Be Shipped   Storage Condition:   -20°C     Analytical Information   Verning 2:   Warning 3:   -20°C     Analytical Information:   Specifications:   Results:     Elemental Analysis Conforms   %C: 37.15, %H: 5.32     Appearance   White Solid   White Solid     VMR   Conforms to Structure   Conforms     MS   Conforms to Structure   Conforms     Specific Rotation   Report Result   +32.6° (c = 0.2, Water; 4.0 Hours)     Additional Information:   N/A				Molecular weight:		
Image: Second		HO	La	194.14		
Solubility:   Aqueous Base (Slightly), DMSO (Slightly, Heated), Methanol (Slightly, Heated), W     Lot Number:   21-ZEA-63-1   Purity:   97%     Shipping Condition:   This Product Is Stable To Be Shipped At Room Temperature   Purity:   97%     Warning 1:   Warning 2:   Warning 3:     Analytical Information:   Specifications:   Results:     Elemental Analysis   Conforms   %C: 37.15, %H: 5.32     Appearance   White Solid   White Solid     VMR   Conforms to Structure   Conforms     MS   Conforms to Structure   Conforms     Specific Rotation   Report Result   +32.6° (c = 0.2, Water; 4.0 Hours)     Additional Information:   N/A   N/A		HO	OH	Source of Product:		
Aqueous Base (Slightly), DMSO (Slightly, Heated), Methanol (Slightly, Heated), Methanol (Slightly, Heated), W     Shipping Condition:   This Product Is Stable To Be Shipped At Room Temperature   Storage Condition:   -20°C     Warning 1:   Warning 2:   Warning 3:     Manalytical Information   Specifications:   Results:     Elemental Analysis   Conforms   %C: 37.15, %H: 5.32     Appearance   White Solid   White Solid     VMR   Conforms to Structure   Conforms     VS   Conforms to Structure   Conforms     MR   Conforms to Structure   Conforms     MR   Conforms to Structure   Conforms     Marty is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accord to the specifications are subject to change				N/A		
Lot Number:   21-ZEA-63-1   Purity:   97%     Shipping Condition:   This Product Is Stable To Be Shipped At Room Temperature   Storage Condition:   -20°C     2. Warning 1:   Warning 2:   Warning 3:     3. Analytical Information   Storage Condition:   -20°C     2. Warning 1:   Warning 2:   Warning 3:     3. Analytical Information   Storage Condition:   -20°C     7. Marting 1:   Warning 2:   Warning 3:     3. Analytical Information   Storage Condition:   -20°C     7. Marting 1:   Varning 2:   Warning 3:     3. Analytical Information   Storage Condition:   -20°C     7. Marting 1:   Varning 2:   Warning 3:     8. Analytical Information:   Storage Conforms   %C: 37.15, %H: 5.32     Appearance   White Solid   White Solid     NMR   Conforms to Structure   Conforms     MS   Conforms to Structure   Conforms     Specific Rotation   Report Result   +32.6° (c = 0.2, Water; 4.0 Hours)     Additional Information:   N/A   N/A				Solubility:		
shipping Condition:   This Product Is Stable To Be Shipped At Room Temperature   Storage Condition:   -20°C     2. Warning 1:   Warning 2:   Warning 3:     3. Analytical Information   Warning 1:   Varning 3:     Tests:   Specifications:   Results:     Elemental Analysis   Conforms   %C: 37.15, %H: 5.32     Appearance   White Solid   White Solid     NMR   Conforms to Structure   Conforms     MS   Conforms to Structure   Conforms     Specific Rotation   Report Result   +32.6° (c = 0.2, Water; 4.0 Hours)				DMSO (Slightly, Heated),		
Simplify   This House is bable to be simpled   condition:   -20°C     Condition:   At Room Temperature   condition:   -20°C     Warning   Warning 1:   Warning 2:   Warning 3:     Warning 1:   Warning 2:   Warning 3:     Analytical Information   Fests:   Specifications:   Results:     Elemental Analysis   Conforms   %C: 37.15, %H: 5.32     Appearance   White Solid   White Solid     NMR   Conforms to Structure   Conforms     MS   Conforms to Structure   Conforms     Specific Rotation   Report Result   +32.6° (c = 0.2, Water; 4.0 Hours)     Additional Information:   N/A   W/A     writy is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an account of the specifications are subject to change	Lot Number:	21-ZEA-63-1	Purity:	97%		
Warning 1: Warning 2: Warning 3:   B. Analytical Information Specifications: Results:   Tests: Specifications: Results:   Elemental Analysis Conforms %C: 37.15, %H: 5.32   Appearance White Solid White Solid   NMR Conforms to Structure Conforms   MS Conforms to Structure Conforms   Specific Rotation Report Result +32.6° (c = 0.2, Water; 4.0 Hours)				-20°C		
Analytical Information   Results:     Fests:   Specifications:   Results:     Elemental Analysis   Conforms   %C: 37.15, %H: 5.32     Appearance   White Solid   White Solid     NMR   Conforms to Structure   Conforms     MS   Conforms to Structure   Conforms     Specific Rotation   Report Result   +32.6° (c = 0.2, Water; 4.0 Hours)     Additional Information:   N/A     writy is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an account of the specifications are subject to change	2. Warning					
Fests:   Specifications:   Results:     Elemental Analysis   Conforms   %C: 37.15, %H: 5.32     Appearance   White Solid   White Solid     NMR   Conforms to Structure   Conforms     MS   Conforms to Structure   Conforms     Specific Rotation   Report Result   +32.6° (c = 0.2, Water; 4.0 Hours)     Additional Information:   N/A     writy is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an account of the specifications are subject to change	Warning 1:	Warn	ing 2:	Warning 3:		
Elemental Analysis   Conforms   %C: 37.15, %H: 5.32     Appearance   White Solid   White Solid     NMR   Conforms to Structure   Conforms     MS   Conforms to Structure   Conforms     Specific Rotation   Report Result   +32.6° (c = 0.2, Water; 4.0 Hours)     Additional Information:   N/A     writy is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an account of the specifications are subject to change	8. Analytical In	formation				
Appearance   White Solid   White Solid     NMR   Conforms to Structure   Conforms     MS   Conforms to Structure   Conforms     Specific Rotation   Report Result   +32.6° (c = 0.2, Water; 4.0 Hours)     Additional Information:   N/A     urity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accord f ± 2%. Isotopic purity is based on mass distribution observed. The contents of the specifications are subject to change		•				
NMR   Conforms to Structure   Conforms     MS   Conforms to Structure   Conforms     Specific Rotation   Report Result   +32.6° (c = 0.2, Water; 4.0 Hours)     Additional Information:   N/A     urity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accord f ± 2%. Isotopic purity is based on mass distribution observed. The contents of the specifications are subject to change	Elemental Analysis Conforms					
MS   Conforms to Structure   Conforms     Specific Rotation   Report Result   +32.6° (c = 0.2, Water; 4.0 Hours)     Additional Information:   N/A     urity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accord f ± 2%. Isotopic purity is based on mass distribution observed. The contents of the specifications are subject to change	Appearance	White Solid	V			
Specific Rotation   Report Result   +32.6° (c = 0.2, Water; 4.0 Hours)     Additional Information:   N/A     urity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accur f ± 2%. Isotopic purity is based on mass distribution observed. The contents of the specifications are subject to change	NMR	Conforms to Structure	C	Conforms		
Additional Information: N/A urity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accu f ± 2%. Isotopic purity is based on mass distribution observed. The contents of the specifications are subject to change			C	Conforms		
urity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an acc f ± 2%. Isotopic purity is based on mass distribution observed. The contents of the specifications are subject to change	Specific Rota	tion Report Result	+	-32.6° (c = 0.2, Water; 4.0 Hours)		
$\pm$ 2%. Isotopic purity is based on mass distribution observed. The contents of the specifications are subject to change	Additional Ir	nformation: N/A				
	f±2%. Isotop	on the analytical results of the tests pic purity is based on mass distribut	ion observed. The conter	nts of the specifications are subject to change		

4. Signatures						
<b>Reviewed By</b>	<b>Reviewed By</b>	C of A Approved By	Test Date	Retest Date		
Evan Burns	Toni Rantanen	Chanell Chu	7/16/2021	7/14/2025		
Evan Burns	theto	Charubb Bru				