



Version	00
Molecular weight	147.13
Quality Test / Release Date	02/05/2018
Molecular Formula	C5 H9 N O4
CAS No	6893-26-1
Linear Formula	HO2CCH2CH2CH(NH2)CO2H
Flash Point (°C)	

Certificate of Analysis

This is to certify that units of the above mentioned lot number were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Acros Organics expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Unless otherwise stated, these products are not intended for dialysis, parenteral, or injectable use without further processing. The following are the actual analytical results obtained:

Catalog Number	22789	Quality Test / Release Date 02/05/2018
Lot Number	A0393267	
Description	D(-)-Glutamic acid, 99+%	
Country of Origin	CHINA	
Declaration of Origin	other	

BSE/TSE comment	
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Chemical Comment	
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Result name	Units	Specifications	Test Value
Appearance (Color)		White to off-white	White
Appearance (Form)		Powder	Powder
Infrared spectrum		Authentic	Authentic
Titration with NaOH		99.0 to 101.0 %	100.1 %
Loss on drying		=<0.2 % (105°C, 3 hrs)	0.02 % (105°C, 3 hrs)
Sulfated ash		=<0.1 %	0.07 %
Other amino acids		=<0.5 % (TLC)	=<0.5 % (TLC)
Specific optical rotation		-30.5° to -32.2° (20°C, 589 nm) (c=10, 2 N HCl)	-32° (20°C, 589 nm) (c=10, 2 N HCl)



A handwritten signature in black ink, appearing to read "L. Van den Broek".

L. Van den Broek, QA Manager

Issued: 02-06-2018

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