

 Version
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 Molecular weight
 147.13

 Quality Test / Release Date
 02/05/2018

 Molecular Formula
 C5 H9 N O4

 CAS No
 6893-26-1

Linear Formula Flash Point (°C) HO2CCH2CH2CH(NH2)CO2H

Certificate of Analysis

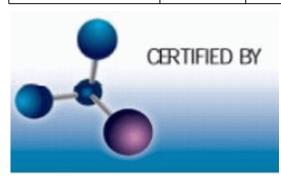
This is to certify that units of the above mentioned lot number were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Acros Organics expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability 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

Chemical Comment

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)	-32° (20°C, 589 nm) (c=10, 2 N HCl)
		(c=10, 2 N HCI)	



L. Van den Broek, QA Manager

Acros Organics

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