



## **CERTIFICATE OF ANALYSIS**

<b>Product Name</b>	:	<b>L-GLUTAMIC ACID 99% FOR BACTERIOLOGY &amp; TISSUE CULTURE</b>
<b>Cas No.</b>	:	<b>56-86-0</b>
<b>Code No.</b>	:	<b>01284</b>
<b>Batch No.</b>	:	<b>PC07241154</b>
<b>Mfg. Date</b>	:	<b>JULY-2024</b>
<b>Date Of Analysis</b>	:	<b>29/07/2024</b>
<b>Retest Date</b>	:	<b>JUNE-2029</b>

<b>TEST</b>	<b>SPECIFICATION</b>	<b>RESULT</b>
Appearance	White powder	White powder
Assay (acidimetric)	Min 99.0%	99.41%
Specific optical rotation ( $[\alpha]_{20}^D$ ; 100 g/L in 1 mol/L HCl; on dried substance)	+30.5 to +32.5°	+31.4°
Chloride (Cl)	Max 0.02%	0.005%
Sulphate (SO <sub>4</sub> )	Max 0.03%	0.004%
Heavy metal (as Pb)	Max 0.001%	0.0006%
Iron (Fe)	Max 0.001%	0.0002%
Ammonium (NH <sub>4</sub> )	Max 0.02%	0.003%
Ninhydrin positive substance (TLC)	Max 0.5%	0.14%
Sulphated ash (at 600°C)	Max 0.1%	0.08%
Loss on drying (at 105°C)	Max 0.5%	0.14%

REMARK : This product complies as per the specifications of **Pallav Chemicals & Solvents Pvt. Ltd.**

**This is an electronically generated Certificate and is valid without a signature.**

For Issues relating to Quality you may send us a mail on [sales@pallavchemicals.com](mailto:sales@pallavchemicals.com) or call on **022 4928 4000**

Website: [www.pallavchemicals.com](http://www.pallavchemicals.com)