

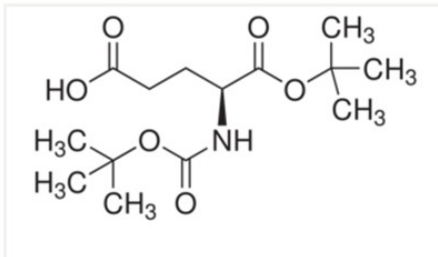
HANGZHOU OCEAN CHEMICAL CO., LTD

Room 623 ,Building No 1 , COFCO Radius Commercial Center Xiwen

Road, Xiacheng District, Hangzhou, Zhejiang, China

Tel: +86-571-88025872 Fax: +86-571-88025871 Mobile: +86 13588138709

CERTIFICATE OF ANALYSIS

Product Name	Boc-Glu-OtBu
CAS NO	24277-39-2
Batch No	A00710-181201
Structure	 The chemical structure shows a glutamic acid derivative. The carboxylic acid group is at the end of a four-carbon chain. The second carbon from the acid has a hydrogen atom pointing down and a Boc-protected amine group (tert-butyl (2-oxo-2-(propan-2-ylideneoxy)propanamido)acetate) pointing up. The third carbon has a hydrogen atom pointing down and a tert-butyl ester group (tert-butyl 2-oxoacetate) pointing up.
Quantity	204kg
Manufacture Date:	Dec 15, 2018
Retest Date	Dec 14, 2019

Test Items	Specifications	Results
Appearance	White or off white crystalline power	Conforms
Specific Rotation	-31.0° ~ -33.0° C=1 MeOH	-31.86°
Loss on Drying	≤0.50%	0.21%
Assay(HPLC)	≥98.0%	98.88%
Conclusion	This product by inspection accords with enterprise standard	

Q.C.Director:

Analyst:

Collator:

