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### CERTIFICATE OF ANALYSIS

Analysis Date:

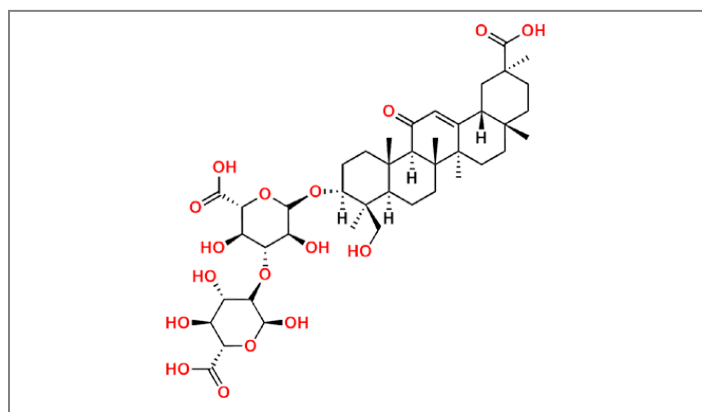
Re-test Date:

**Product Name: Glycyrrhizic acid EP Impurity A**

#### Identification:

Chemical Name: (4 $\beta$ ,20 $\beta$ )-3 $\beta$ -[[2-O-( $\beta$ -D-glucopyranosyluronic acid)- $\alpha$ -D-glucopyranosyluronic acid]oxy]-23-hydroxy-11-oxoolean-12-en-29-oic acid (24-hydroxyglycyrrhizinic acid) (as per EP)

Synonyms : NA  
CAS Number : 215720-45-9  
CAT Number : CP-G64001  
Molecular Formula : C42H62O17  
Molecular Weight : 838.9



#### Analytical Information:

Sr. No.	Test	Result
1)	Description	Solid
2)	Solubility	Soluble in Methanol/DMSO
3)	MASS By LCMS	Confirm to structure
4)	Purity By HPLC	>95%
5)	H1NMR	Confirm to structure



Prepared and Reviewed By

Ms Priyanka Salunkhe  
(Manager QC Analytical)

Approved By

Ms Rohini Gagare  
(QA Head)

Note: Product supplied by Chemicea are for R&D purpose only and not for human consumptions.