

CERTIFICATE OF ANALYSIS

Product Name:	Sucralose		
Synonyms:	Trichlorosucrose, Trichlorogalactosucrose, TGS		
CAS NO	56038-13-2		
Molecular weight	397.64	Chemical formula	C ₁₂ H ₁₉ Cl ₃ O
Batch Number	AG20220609	Manufacture Date	20220609
Report Date	20220609	Expiry Date	20240609

Item of Analysis	Specification	Results	Test Methods
Assay	98.0% - 102.0%	99.9%	FCC/USP/NF/EP/EC(E955)/BP
Organoleptic			
Appearance	Powder	Conforms	Organoleptic
Color	White to off-white, crystalline powder	Conforms	Organoleptic
Physical Characteristics			
(A) Identify (IR)	The spectrum of the sample exhibits the same as that of the reference	Conforms	CP2010
(B) Identify (HPLC)	The retention time of the sample is the same as that of the standard.	Conforms	USP<731>
(C) Identity (TLC)	The Rf value of the sample is the same as that of the standard.	Conforms	USP<561>
pH	6.0~7.0	6.5	
Specific Rotation	+84.0~+87.5°		FCC/USP/NF/EP/EC(E955)/BP
Residue on Ignition (Sulphated Ash)	≤0.7%	0.5%	FCC/USP/NF/EP/EC(E955)/BP
Related Substances (Oher Chlorinated Disaccharides)	0.0~ 0.5%	0.1%	FCC/USP/NF/EP/EC(E955)/BP
Hydrolysis Products (Chlorinated monosaccharides)	≤0.1%	0.01%	FCC/USP/NF/EP/EC(E955)/BP
Triphenylphosphine oxide	≤150mg/kg		FCC/USP/NF/EP/EC(E955)/BP
Methanol	≤0.1%		FCC/USP/NF/EP/EC(E955)/BP
Water	≤2.0%	0.2%	FCC/USP/NF/EP/EC(E955)/BP

Heavy metals			
Total Heavy Metals	10ppm Max	Conform	USP<231>method II
Lead (Pb)	2ppm NMT	Conform	ICP-MS
Arsenic (As)	2ppm NMT	Conform	ICP-MS
Cadmium (Cd)	2ppm NMT	Conform	ICP-MS
Mercury (Hg)	0.5ppm NMT	Conform	ICP-MS
Microbiological Tests			
Total Plate Count	3000cfu/g Max	Conform	USP<61>
Yeast & Mold	1000cfu/g Max	Conform	USP<61>
E. Coli.	Negative	Conform	USP<61>
Salmonella	Negative	Conform	USP<61>
Staphylococcus	Negative	Conform	USP<61>

Storage: Store in tight, light-resistant containers, avoid exposure to direct sunlight, moisture and excessive heat.

Shelf Life: 24 months if store under the conditions above and stay in original packaging.

