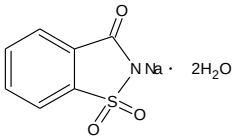

$C_7H_4NNaO_3S \cdot 2H_2O$ / M.W. 241.20

IDENTIFICATION OF PRODUCT

Chemical Name	1,2-benzisothiazol-3(2H)-one, 1,1-dioxide, sodium salt, dehydrate 1,2-benzisothiazolin-3-one 1,1-dioxide, sodium salt, dehydrate 2-Sodio-1,2-benzisothiazol-3(2H)-one 1,1-dioxide
Identification No.	CAS : di-hydrate[6155-57-3], mono-hydrate[82385-42-0], an-hydrous[128-44-9] EINECS: 204-886-1 HS: 2925.11.2000 E No: E954(ii) UN: N/A

STANDARD

Subject	Specification	Analytical Method
Characters		Ph. Eur.
Appearance	White or almost white, crystalline powder or colourless crystals, efflorescent in dry air	
Solubility	Freely soluble in water, sparingly soluble in ethanol (96%)	
Identification		
Melting point	226 ~ 230 ℃	Ph. Eur.
Infrared absorption	Passes test	Ph. Eur./USP
Derivation to fluorescent substances	Passes test	Ph. Eur.
Derivation to salicylic acid	Passes test	Ph. Eur.
Test for sodium		
- Potassium pyroantimonate solution test	A dense Precipitate is formed	Ph. Eur./USP
- Nonluminous flame test	Yellow color	USP
Appearance of solution		Ph. Eur./USP
Clarity of solution	Clear	
Color of solution	Colorless	
Acidity or alkalinity	Passes test	Ph. Eur./USP
Water	Not more than 15.0% w/w	Ph. Eur./USP
Limit of benzoate and salicylate	Passes test	USP
Readily carbonisable substances	Passes test	Ph. Eur./USP
Arsenic	Not more than 2mg/kg	Internal Method
Selenium	Not more than 0.003% w/w	Internal Method
Lead	Not more than 1mg/kg	Internal Method
Residual solvents	Meets USP/Ph.Eur requirements	Ph.Eur./USP
Limit of toluenesulfonamides		
o-Toluenesulfonamide	Not more than 10mg/kg	Ph. Eur./USP
p-Toluenesulfonamide	Not more than 10mg/kg	Ph. Eur./USP

Subject	Specification	Analytical Method
Assay(anhydrous basis, USP)	98.0% ~102.0%	USP
Assay(anhydrous substance, Ph.Eur)	99.0 ~101.0 %	Ph. Eur.
Benzoic acid p-Sulphonamide	Not more than 25mg/kg	E954
Other organic impurities(by GC)		
Methyl benzoate	Not Detected	Internal Method
Methyl anthranilate	Not Detected	Internal Method
Phthalate or their derivatives	Not Detected	Internal Method
Benzamide	Not Detected	Internal Method
2-chlorobenzamide	Not Detected	Internal Method
1,2-benzisothiazoline-3-one	Not Detected	Internal Method
N-methyl saccharin	Not Detected	Internal Method
2-chlorobenzene sulfonamide	Not Detected	Internal Method
Dibutyl phthalate	Not Detected	Internal Method
Microbes		
Total aerobic microbial count	Max. 100 cfu/g	USP
Escherichia coli	Absence	USP
Total yeast and mold count	Max. 100 cfu/g	USP
Staphylococcus aureus	Absence	USP
Salmonella	Absence	USP
Pseudomonas aeruginosa	Absence	USP

※ *The above specification and analytical method conform to the Pharmaceutical grade (Ph. Eur., USP/NF, JP, KP, etc.,) and Food grade (E954, FCC, JECFA, etc.,).*

※ *Arsenic/Selenium/Lead/Residual solvents*/Other organic impurities(by GC)/*Microbes results are quarterly based on statistics.*

※ *Free from any allergen, irradiation, pesticides, GMO, BSE/TSE, Gluten, Latex, lactose and CMR.(carcinogenic, mutagenic or reprotoxic)*

STORAGE & HANDLING CONDITIONS

- Preserve in well-closed containers.(USP/FCC)
- Store at room temperature.(USP)
- In an airtight container.(Ph.Eur)

PACKAGING

- 25kg Carton box, 50kg Fiber Drum, and 1000kg Super Sack with inner Polyethylene bag.
- There are various packaging types according to the customer's requirements.

SHELF LIFE

- The shelf life of this material is five years when stored under the conditions specified above.