



C<sub>7</sub>H<sub>5</sub>NO<sub>3</sub>S / M.W. 183.18

**IDENTIFICATION OF PRODUCT**

Chemical Name      1,2-Benzisothiazol-3(2H)-one, 1,1-dioxide  
                              1,2-Benzisothiazolin-3-one 1,1-dioxide

Identification No.    CAS: 81-07-2    EINECS: 201-321-0    HS: 2925.11.1000    E No: E954(i)    UN: N/A

**STANDARD**

| <b>Subject</b>                       | <b>Specification</b>                                                                                                                                             | <b>Analytical Method</b> |
|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| Characters                           |                                                                                                                                                                  | Ph. Eur.                 |
| Appearance                           | White or almost white, crystalline powder or colourless crystals                                                                                                 |                          |
| Solubility                           | Sparingly soluble in boiling water and in ethanol (96%), slightly soluble in cold water.<br>It dissolves in dilute solutions of alkali hydroxides and carbonates |                          |
| Identification                       |                                                                                                                                                                  |                          |
| Blue litmus paper                    | Red                                                                                                                                                              | Ph. Eur.                 |
| Melting point                        | 226 ~ 230 °C                                                                                                                                                     | Ph. Eur./USP             |
| Infrared absorption                  | Passes test                                                                                                                                                      | Ph. Eur./USP             |
| Derivation to fluorescent substances | Passes test                                                                                                                                                      | Ph. Eur.                 |
| Derivation to salicylic acid         | Passes test                                                                                                                                                      | Ph. Eur.                 |
| Appearance of solution               |                                                                                                                                                                  | Ph. Eur./USP             |
| Clarity of solution                  | Clear                                                                                                                                                            |                          |
| Color of solution                    | Colorless                                                                                                                                                        |                          |
| Loss on drying                       | Not more than 1.0 % 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 on ignition(sulfated ash)   | Not more than 0.2% w/w                                                                                                                                           | Ph. Eur./USP             |
| 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             |
| Assay(dried basis, USP)              | 98.0% ~102.0%                                                                                                                                                    | USP                      |
| Assay(dried substance, Ph.Eur)       | 99.0 ~ 101.0 %                                                                                                                                                   | Ph. Eur.                 |

|                                                                                   |                               |          |            |
|-----------------------------------------------------------------------------------|-------------------------------|----------|------------|
|  | <b>STANDARD SPECIFICATION</b> | Code No. | JMC-Q-0350 |
|                                                                                   |                               | Rev. No. | 17-221110  |
|                                                                                   | <b>INSOLUBLE SACCHARIN</b>    | Pages    | 2/2        |

| <b>Subject</b>                  | <b>Specification</b>  | <b>Analytical Method</b> |
|---------------------------------|-----------------------|--------------------------|
| 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)

### **PACKAGING**

- 25kg Carton box and 50kg Fiber drum 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.