



## sulfamethoxazole

a synthetic antibiotic, active against gram-positive and gram-negative bacteria.

Sulfonamide is the source of the powerful antibacterial agent sulfamethoxazole powder. By preventing the production of dihydrofolic acid, it efficiently inhibits a wide range of bacteria and causes bacterial cell death.

Sulfamethoxazole Powder is a common ingredient used by microbiologists to prepare selective culture media. This medium suppressing unwelcome bacterial growth.

|                     |                                                                 |
|---------------------|-----------------------------------------------------------------|
| Cat. Number         | AS-2021                                                         |
| CAS Number          | 723-46-6                                                        |
| MDL Number          | MFCD00010546                                                    |
| PubChem             | 310280385                                                       |
| Molecular Weight    | 253.28 g/mol                                                    |
| Molecular Formula   | C <sub>10</sub> H <sub>11</sub> N <sub>3</sub> O <sub>3</sub> S |
| Storage Temperature | 4°C                                                             |
| Form and Color      | Powder to crystalline powder, white to off-white                |
| Purity (HPLC)       | Min. 98%                                                        |
| Loss on Drying      | Max. 0.5%                                                       |
| FT-IR Spectrum      | Corresponds to reference spectrum.                              |
| Heavy metals        | ≤ 20 ppm                                                        |
| Melting point       | 169 – 172 °C                                                    |
| Synonym             | 4-Amino-N-(5-methyl-3-isoxazolyl) benzenesulfonamide            |