

Product Name:	Sulfapyridine, USP
Product Number:	S065
CAS Number:	144-83-2
Molecular Formula:	$C_{11}H_{11}N_3O_2S$
Molecular Weight:	249.29
Form:	Powder
Storage Conditions:	2-8°C
Description:	<p>Sulfapyridine, USP is a first generation sulfonamide antibiotic and was one of the first compounds used to treat and cure pneumonia. Sulfapyridine has also been found to have anti-inflammatory effects and can be used in immunodeficiency studies.</p> <p>TOKU-E Company offers two forms of sulfapyridine: sulfapyridine, USP (S065) and sulfapyridine sodium (S106). In aqueous solution, sulfapyridine sodium is freely soluble (667 mg/mL) while sulfapyridine is significantly less soluble (0.29 mg/mL). Both forms have similar potencies and are suitable for microbiology use; however, sulfapyridine sodium is easier to work with in aqueous solution.</p>
Mechanism of Action:	Sulfapyridine inhibits folic acid synthesis by acting as a competitive inhibitor of dihydropteroate synthetase, an enzyme found in the folic acid synthesis pathway.
Spectrum:	Sulfapyridine has a broad spectrum of activity.
Microbiology Applications	Sulfapyridine can be used to study anti-inflammatory properties.
References:	<p>Henry, Richard J. "The Mode of Action of Sulfonamides." Bacteriology Reviews (n.d.): 175-84. www.ncbi.gov. Web. 27 Aug. 2012.</p> <p>Paniker, U., and N. Levine. "Dapsone and Sulfapyridine." Dermatologic Clinics 19.1 (2001): 79-86. Nih.gov. Web. 24 Feb. 2014.</p>