

Sulfapyridine sodium PRODUCT DATA SHEET

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Product Name:	Sulfapyridine sodium
Product Number:	S106
CAS Number:	127-57-1
Molecular Formula:	$C_{11}H_{10}N_3O_2SNa \cdot H_2O$
Molecular Weight:	289.29
Description:	Sulfapyridine 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. TOKU-E Company offers two forms of sulfapyridine: <u>sulfapyridine, USP (S065)</u> 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.
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:	Henry, Richard J. "The Mode of Action of Sulfonamides." Bacteriology Reviews (n.d.): 175-84. www.ncbi.gov. Web. 27 Aug. 2012.
	Paniker, U., and N. Levine. "Dapsone and Sulfapyridine." Dermatologic Clinics 19.1 (2001): 79-86. Nih.gov. Web. 24 Feb. 2014.

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