Furazolidone
PRODUCT DATA SHEET

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Product Name:	Furazolidone
Product Number:	F004
CAS Number:	67-45-8
Molecular Formula:	$C_8H_7N_3O_5$
Molecular Weight:	225.16
Form:	Powder
Appearance:	Yellow crystalline powder
Source:	Synthetic
Storage Conditions:	2-8°C
Description:	Furazolidone is a nitrofuran antibiotic and is sparingly soluble in aqueous solution at 40 µg/mL.
Mechanism of Action:	Furazolidone targets bacterial DNA to induce crosslinks which lead to an increased mutation rate or prevents complete DNA replication.
Spectrum:	Furazolidone is a broad spectrum antibiotic targeting bacteria responsible for gastrointestinal infections.
Microbiology Applications	Furazolidone is commonly used in clinical *in vitro* microbiological antimicrobial susceptibility tests (panels, discs, and MIC strips) against gram positive and gram negative microbial isolates. Medical microbiologists use AST results to recommend antibiotic treatment options for infected patients. Representative MIC values include: • *Treponema hyodysenteriae* 0.1 µg/mL – 1.56 µg/mL • For a complete list of furazolidone MIC values, click here.
References:	Chatterjee, S. N. "Mechanism of Action of Furazolidone: Inter-strand Cross-linking in DNA & Liquid Holding Recovery of *Vibrio Cholerae* Cells." *Indian Journal of Biochemistry and Biophysics* 16.3 (1979): 125-30. *www.ncbi.gov*. Web. 10 Sept. 2012.