



Virginiamycin M [HRP] (DAG1330)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Virginiamycin M, HRP conjugate
Antigen Description	Streptogramins are a class of bacteriocidal antibiotics. They are a combination of quinupristin and dalbopristin in a 30:70 ratio. The interaction of these components is greater than the individual reactions. Quinupristin prevents elongation of the 50S ribosomal subunit while dalbopristin changes the structure of the 50S subunit to promote more favourable binding with quinupristin in a synergistic reaction, effectively inhibiting protein synthesis. Virginiamycin is an antibiotic similar to pristnamycin. It is used to prevent microbial contamination in fuel ethanol industries which act as an alternative to traditional oil based fuel sources.
Species	N/A
Conjugate	HRP
Format	Concentrate
Size	0.5 ml
Preservative	None
Storage	2-8°C short term, -20°C long term

BACKGROUND

Introduction	Virginiamycin is a class of streptogramin-related depsipeptides isolated from the bacterium Streptomyces virginiae and other Streptomyces bacterial species. The virginiamycins consist of two major components, virginiamycin M1 and virginiamycin S1. These agents bind to and inhibit ribosome assembly, thereby preventing protein synthesis. Active against Gram-positive bacteria, these antibiotics are primarily used in veterinary practice.
Keywords	Virginiamycin; Pristinamycin IIA; Virginiamycin M1; Virginiamycin S1