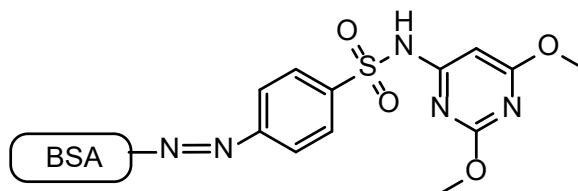


Sulfadimethoxine–BSA Conjugate HL

Lyophilized powder, 1 mg conjugate per tube, ≥99% conjugate by HPLC

Product Number: **CM52127**



Product Description

Sulfadimethoxine (SDM) is an antibiotic that is widely used in veterinary medicine. It gains its antibacterial properties by acting as an inhibitor for PABA in bacterial synthesis of folic acid. This sulfadimethoxine–BSA conjugate is a highly loaded (HL) conjugate with an average of 15 to 25 SDM molecules per BSA and can be used for immunization or immunoassay development. Sulfadimethoxine is conjugated to BSA via surface amine chemistry. The final conjugate is supplied in a lyophilized form containing phosphate buffered saline (PBS) and sugar-based stabilizers. This process makes the conjugates more stable for storage and shipment.

The product is sold as either 1 vial of 1 mg (Cat# CM52127-1MG) or 5 vials of 1 mg (Cat# CM52127-5MG). For bulk orders, please contact us for a quote.

Application

- Assay development for detection of Sulfadimethoxine contaminants
- Antibody discovery via immunization and hapten recognition
- Indirect and competitive ELISA assay

Key Features

- Lyophilized powder ready to use after reconstitution with non-pyrogenic deionized water, no need for external buffer.
- Highly loaded conjugates with an average 15-25 SDMs per BSA
- Concentration accurately determined by UV/HPLC analysis.

Storage/Stability

- Recommended storage of the product is below -20°C
- Expiration before reconstitution is 1 year after receiving.
- Once Reconstituted maintain at 2-8°C.
- For best quality use within 1 week of reconstituting. Do not freeze once reconstituted.

References

- Pastor-Navarro N. *et. al.* Specific polyclonal-based immunoassays for sulfathiazole. *Anal Bioanal Chem.* **2004**, 379(7-8), 1088-99. DOI: 10.1007/s00216-004-2683-1.
- Wang, Z. *et al.* Monoclonal antibodies with group specificity toward sulfonamides: selection of hapten and antibody selectivity. *Anal Bioanal Chem*, **2013**, 405, 4027–4037. DOI: 10.1007/s00216-013-6785-5
- Zhou Q. *et. al.* A novel hapten and monoclonal-based enzyme-linked immunosorbent assay for sulfonamides in edible animal tissues. *Food Chem*, **2014**, 1, 154, 52-62. doi: 10.1016/j.foodchem.2014.01.016.