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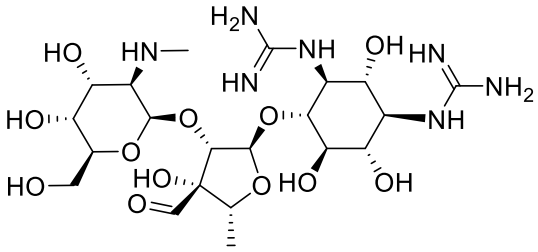
METABOLITE SET DATA SHEET

Aminoglycoside Metabolite Set

Code No.: **BIA-MS5025**



Streptomycin

Specifications

The set is available as either a set of 13 x 1mg vials or as a set of 13 x 5mg vials of the following products:

Vial #	Compound	Code No.	CAS #	Mol. Formula	Mol. Wt.
1	Streptomycin	BIA-S2346	57-92-1	$C_{21}H_{39}N_7O_{12}$	581.6
2	Amikacin (as diSO4)	BIA-A3094	39831-55-5	$C_{22}H_{43}N_5O_{13}.2H_2O_4S$	781.8
3	Apramycin	BIA-A2440	37321-09-8	$C_{21}H_{41}N_5O_{11}$	539.6
4	2-Deoxystreptamine (as diHBr)	BIA-D3097	84107-26-6	$C_6H_{14}N_2O_3.2BrH$	324.0
5	Dihydrostreptomycin (as sesquisulfate)	BIA-D3096	5490-27-7	$C_{21}H_{41}N_7O_{12}.3/2H_2O_4S$	1461.4
6	Kanamycin B	BIA-K3095	4696-76-8	$C_{18}H_{37}N_5O_{10}$	483.5
7	Kanamycin sulfate	BIA-K2887	25389-94-0	$C_{18}H_{36}N_4O_{11}.H_2O_4S$	582.6
8	Kasugamycin	BIA-K3115	6980-18-3	$C_{14}H_{25}N_3O_9$	379.4
9	Neomycin (as sulfate)	BIA-N2912	1405-10-3	$C_{23}H_{46}N_6O_{13}.3H_2SO_4$	908.9
10	Paromomycin (as sulfate)	BIA-P2914	1263-89-4	$C_{23}H_{45}N_5O_{14}.xH_2O_4S$	-
11	Ribostamycin (as sulfate)	BIA-R2915	53797-35-6	$C_{17}H_{34}N_4O_{10}.xH_2O_4S$	-
12	Spectinomycin	BIA-S2891	1695-77-8	$C_{14}H_{24}N_2O_7$	332.4
13	Tobramycin	BIA-T2889	32986-56-4	$C_{18}H_{37}N_5O_9$	467.5

Long Term Storage : **-20°C, protect from light**

Stability : **Stable for more than 1 year when stored at -20°C, protected from light**

Shipping : **Ambient temperature**

Purity : **Minimum purity of >95% by HPLC**

Solubility : **Soluble in water.**

For in vitro laboratory use only. Not for human or animal use.

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Product Description:

The aminoglycosides are an important family of potent Gram-negative and Gram-positive antibiotics produced by Streptomyces and Micronospora sp. Aminoglycosides act through inhibition of protein synthesis and have been a mainstay for treatment of serious bacterial infections for 80 years. Their core structure consists of amino sugars connected via glycosidic linkages to a dibasic aminocyclitol. The Aminoglycoside Metabolite Set includes the first-in-class streptomycin and examples of the four sub-classes which are based on the substitution of aminocyclitol moiety. The set also includes the chemically-related aminocyclitol, spectinomycin.

References:

1. Molecular insights into aminoglycoside action and resistance. Magnet S. & Blanchard J.S. Chem. Rev. 2005, 105, 477.
2. Aminoglycoside revival: Review of a historically important class of antimicrobials undergoing rejuvenation. Serio A.W. et al. EcoSal Plus 2018, 8, 1.

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