## HANGZHOU THINK CHEMICAL CO., LTD.

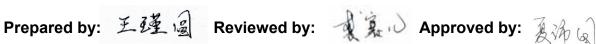
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## **CERTIFICATE OF ANALYSIS**

Product: Batch No: 150308 Kitasamycin tartrate Mfg. Date: 14/03/2015 Exp. Date: 13/03/2018

Batch Quantity: Packing: 20kg/drum\*7+10kg/drum\*1 150kg

Item	Specification	Result	Method
Characters	White to light yellow powder		Conforms
	Odorless and little bitter		
	1) Sulfuric acid test:Solution shows brownish red colour.		
	2)retention time of four major peaks in the test solution		
Identification	correspond to that of A <sub>5</sub> 、A <sub>4</sub> 、A <sub>1</sub> 、A <sub>13</sub> peak in standard		Conforms
	solution		
	3)Responds to the tests for Tartaric acid		
PH	3.0~5.0		4.2
Water	≤5.0%		3.6%
Residue on ignition	≤0.5%		0.07%
	KitasamycinA <sub>4</sub> :5%~25%		10.7%
	KitasamycinA₁:3%~15%		4.9%
Kitasamycin	vcin KitasamycinA₅:35%~70%		54.2%
components	KitasamycinA <sub>13</sub> :3%~15%		6.1%
	KitasamycinA <sub>9</sub> +A <sub>8</sub> + A <sub>7</sub> + A <sub>11</sub> +A <sub>6</sub> +A <sub>4</sub> +A <sub>1+</sub> A <sub>3+</sub> A <sub>13</sub> ≥85%		86.7%
Assay	≥1100u/mg (On dried basis)		1415.1u/mg
Conclusion:	Conforms to CVP2010		





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