

## CERTIFICATE OF ANALYSIS

PRODUCT NAME: Ampicillin Na, USP grade

ITEM NUMBER: A105483  
 BRAND: Aladdin  
 CAS NUMBER: 69-52-3  
 MDL NUMBER: MFCD00064313  
 FORMULA: C<sub>16</sub>H<sub>18</sub>N<sub>3</sub>NaO<sub>4</sub>S  
 MOLECULAR WEIGHT: 371.39

TEST	SPECIFICATION		TARGET VALUE
	MIN.	MAX.	
2-Ethylhexanoic acid	0 %	0.8 %	0.8 %
Appearance	White to Off-White Powder or Crystals		
Appearance of solution	transparent		
Bacterial endotoxins	0 IU/ml OR u/ml 0.15 IU/ml OR u		0.15 IU/ml OR u/ml
Dichloromethane	0 %	0.2 %	0.2 %
heavy metals (as Pb)	0 %	0.002 %	0.002 %
Identification	pass		
Infrared spectrum	Conforms to Structure		
N,N-Dimethylaniline	0 %	0.002 %	0.002 %
pH	8	10	10
Potency (anhydrous)	845 mg/g OR meq 988 mg/g OR meq		988 mg/g OR meq/g /
Purity(HPLC)	91 %	100.5 %	100.5 %
Related substances	Conforms		
Specific rotation [α] <sub>20</sub> /D(0.25 %, Potassium biphthalate solu	+258 °	2+7 °	+287 °
Water by Karl Fischer	0 %	2 %	2 %