

## CERTIFICATE OF ANALYSIS

PRODUCT NAME: Ammonium citrate tribasic,AR,98.5%

ITEM NUMBER: A116440  
BRAND: Aladdin  
CAS NUMBER: 3458-72-8  
MDL NUMBER: MFCD00036406  
FORMULA: C<sub>6</sub>H<sub>17</sub>N<sub>3</sub>O<sub>7</sub>  
MOLECULAR WEIGHT: 243.22

TEST	SPECIFICATION		TARGET VALUE
	MIN.	MAX.	
Appearance	White to Off-White Crystals		
Assay	98.5 %	100 %	100 %
Calcium	0 %	0.01 %	0.01 %
Chloride(Cl)	0 %	0.003 %	0.003 %
Heavy metals(Pb)	0 %	0.002 %	0.002 %
Ignition residue (as sulfate)	0 %	0.03 %	0.03 %
Infrared spectrum	Conforms to Structure		
Insoluble matter in water	0 %	0.005 %	0.005 %
Iron(Fe)	0 %	0.001 %	0.001 %
Oxalate	pass		
Phosphate(PO <sub>4</sub> )	0 %	0.002 %	0.002 %
Proton NMR spectrum	Conforms to Structure		
Substances darkened by sulfuric acid	Pass		
Sulfate(SO <sub>4</sub> )	0 %	0.005 %	0.005 %