

## CERTIFICATE OF ANALYSIS

PRODUCT NAME: Sodium carbonate decahydrate, reagent grade, 99%

ITEM NUMBER: S112589  
BRAND: Aladdin  
CAS NUMBER: 6132-02-1  
MDL NUMBER: MFCD00149178  
FORMULA: Na<sub>2</sub>CO<sub>3</sub> · 10H<sub>2</sub>O  
MOLECULAR WEIGHT: 286.14

TEST	SPECIFICATION		TARGET VALUE
	MIN.	MAX.	
Aluminum (Al)	0 ppm	5 ppm	5 ppm
Appearance	White to Off-White Crystals		
Calcium(Ca)	0 %	0.003 %	0.003 %
Chloride(Cl)	0 %	0.001 %	0.001 %
Clarity	pass		
Fe	0 %	0.0002 %	0.0002 %
Heavy metals(Pb)	0 %	0.0002 %	0.0002 %
Insoluble matter in water	0 %	0.005 %	0.005 %
Magnesium(Mg)	0 ppm	3 ppm	3 ppm
Phosphate(PO <sub>4</sub> )	0 %	0.0005 %	0.0005 %
Potassium(K)	0 %	0.003 %	0.003 %
Purity by Titration by HCL	98.5 %	101.5 %	101.5 %
Silicate(SiO <sub>3</sub> )	0 %	0.001 %	0.001 %
Total nitrogen(N)	0 ppm	5 ppm	5 ppm
Total Sulfate(as SO <sub>4</sub> )	0 %	0.003 %	0.003 %
X-Ray Diffraction	Conforms to Structure		