

## CERTIFICATE OF ANALYSIS

<b>Product Name:</b>	Citric Acid	<b>Quantity:</b>	1000kg
<b>Batch Number:</b>	AX2-2011-187	<b>Analysis Date:</b>	1 <sup>st</sup> Dec. 2020
<b>Production Date:</b>	28 <sup>th</sup> Nov. 2020	<b>Re-Test Date:</b>	27 <sup>th</sup> Nov. 2023
<b>Reference Standard:</b>	BP2013, USP36, FCC8, E330.		
<b>CAS No.:</b>	77-92-9 Molecular Formula: C <sub>6</sub> H <sub>8</sub> O <sub>7</sub>		
Item	Specification	Results	
Appearance	White or almost white crystalline powder, colourless crystals or granules. Odourless, has a strong acid taste, very soluble in water, freely soluble in ethanol.	Pass	
Identification	Positive Reaction	Pass	
Particle size	Between 30-100mesh	Complies	
Assay	99.0% ~ 100.5%	99.86%	
Water	Not more than 0.05%	0.08%	
Residue on Ignition	Not more than 0.05%	0.02%	
Sulfate	Not more than 150mg/kg	<150mg/kg	
Oxalate	Not more than 100mg/kg	<100mg/kg	
Heavy Metals	Not more than 10ppm	<10ppm	
Iron	Not more than 5ppm	<5ppm	
Arsenic	Not more than 1mg/kg	<1mg/kg	
Lead	Not more than 0.5mg/kg	<0.5mg/kg	
Mercury	Not more than 1mg/kg	<1mg/kg	
Aluminium	Not more than 0.2mg/kg	<0.2 mg/kg	
Total Plate Count	Not more than 1000cfu/g	<1000cfu/g	
Yeast and Moulds	Not more than 100cfu/g	<100cfu/g	
E.Coli	Absent in 1g	Absent in 1g	
Salmonella	Absent in 25g	Absent in 25g	
Staphylococcus Aureus	Absent in 25g	Absent in 25g	
Conclusion:	The product with this batch number meets all requirements when tested according to the monograph of BP2013, USP36, FCC8, E330.		

