

CERTIFICATE OF ANALYSIS

PRODUCT NAME: CITRIC ACID MONOHYDRATE FOOD GRADE

BATCH NO.: M211731/M211734

NET WEIGHT: 75000kg

QUANTITY: 3000BAGS

GROSS WEIGHT: 75600kg

PACKING: IN 25kg BAG

ANALYSIS DATE: 11/2022

PRODUCTION DATE: 11/2022

EXPIRY DATE: 11/2025

ITEM	STANDARD	ACTUAL DATA	TEST METHOD
CHARACTERS	COLOURLESS TRANSLUCENT CRYSTALS OR AS WHITE, FINE, CRYSTALLINE POWDER	COLOURLESS TRANSLUCENT CRYSTALS OR AS WHITE, FINE, CRYSTALLINE POWDER	FCC
IDENTIFICATION	PASS TEST	PASS TEST	EP
CLARITY AND COLOUR OF SOLUTION	PASS TEST	PASS TEST	BP
CONTENT	99.5-100.5%	100.0%	BP
MOISTURE	7.5-8.8%	8.6%	FCC
OXALIC ACID	≤100mg/kg	<100mg/kg	FAO/WHO CCFAS Vol.4
SULPHATE	≤150ppm	<150ppm	BP
READILY CARBONISABLE SUBSTANCES	ABS ≤0.52 TRA ≥30%	<0.52 >30%	FCC
RESIDUE ON IGNITION (SULPHATED ASH)	≤0.05%	0.01%	FCC
HEAVY METALS	≤10ppm	<5ppm	BP
ARSENIC	≤1mg/kg	<0.1mg/kg	IP
LEAD	≤0.5mg/kg	<0.1mg/kg	FCC
MERCURY	≤1mg/kg	<0.1mg/kg	E330
ALUMINIUM	≤0.2ppm	<0.2ppm	BP
BACTERIAL ENDOTOXINS	≤0.5IU/mg	<0.5IU/mg	BP
ISOCIRIC ACID (RELATIVE SUBSTANCES)	PASS TEST	PASS TEST	JSFA
POLYCYCLIC AROMATIC HYDROCARBON	PASS TEST	PASS TEST	JSFA
TRILAURYLAMINE	≤0.1mg/kg	<0.1mg/kg	FCC
STERILITY	PASS TEST	PASS TEST	USP
BIURIUM	PASS TEST	PASS TEST	IP
CALCIUM	≤200ppm	<200ppm	IP
IRON	≤50ppm	<50ppm	IP
CHLORIDE	≤50ppm	<50ppm	IP

CONCLUSION: THE QUALITY OF THIS BATCH CONFORMS WITH ALL REQUIREMENTS OF BP/EP/USP/FCC/E330/IP/JSFA/FAO/WHO CCFAS Vol.4 WHEN TESTED ACCORDING TO THESE COMPENDIA