

MANUFACTURER: TTCA CO., LTD. NO.27, XIN AN NAN ROAD, ANQIU, SHANDONG,CHINA							
		CERTIFICATE OF ANALYSIS					
BATCH NO.: M410505 MANUFACTURING DATE: OCT.2024 EXPIRY DATE: OCT.2027 QUANTITY: 15MT		RODUCT NAME: CITRIC ACID MONOHYDRATE E330 8-80MESH					
		CAS NO.: 5949-29-1		MOLECULAR FORMULA: C ₆ H ₈ O ₇ •H ₂ O			
		DATE: NOV. 08, 2024		INVOICE NO. : TTCA242517			
THIS IS TO CERTIFY THAT THE ANALYSIS RESULT OF THE GOODS IS AS FOLLOWS:							
NO.	ITEM	BP 2023	E330	USP 46	EP 11.0	FCC 13	TTCA ANALYSIS RESULT
1	CHARACTERS	COLORLESS OR WHITE CRYSTAL	COLORLESS OR WHITE CRYSTAL	/	COLORLESS OR WHITE CRYSTAL	COLORLESS OR WHITE CRYSTAL	COLORLESS OR WHITE CRYSTAL
2	IDENTIFICATION	PASS TEST	PASS TEST	PASS TEST	PASS TEST	PASS TEST	PASS TEST
3	ODOR	/	/	/	/	/	ODORLESS
4	CLARITY AND COLOUR OF SOLUTION	PASS TEST	/	PASS TEST	PASS TEST	/	PASS TEST
5	ASSAY	99.5-100.5 %	≥99.50 %	99.5-100.5 %	99.5-100.5 %	99.5-100.5 %	99.8%
6	MOISTURE	7.5-9.0 %	≤8.8 %	7.5-9.0 %	7.5-9.0 %	≤8.8 %	8.67 %
7	SULPHATED ASH	≤0.1 %	≤0.05 %	≤0.1 %	≤0.1 %	≤0.05 %	0.02 %
8	SULPHATE	≤150 ppm	/	≤150 ppm	≤150 ppm	/	<20 ppm
9	OXALATE	≤360 ppm	≤100 ppm	≤360 ppm	≤360 ppm	≤25 ppm	<20 ppm
10	CALCIUM	/	/	/	/	/	<20 ppm
11	CHLORIDE	/	/	/	/	/	<5 ppm
12	READILY CARBONIZABLE SUBSTANCES	NOT EXCEEDING STANDARD	NOT EXCEEDING STANDARD	NOT EXCEEDING STANDARD	NOT EXCEEDING STANDARD	A ≤ 0.52 T% ≥ 30	K ≤ 1.0
13	ALUMINIUM	≤0.2 ppm	/	≤0.2 ppm	≤0.2 ppm	/	<0.2 ppm
14	ARSENIC	/	≤ 1ppm	/	/	/	<0.1ppm
15	MERCURY	/	≤1 ppm	/	/	/	<0.1 ppm
16	LEAD	/	≤0.5 ppm	/	/	≤0.5 ppm	<0.5 ppm
17	TRIDODECYLAMINE	/	/	/	/	≤0.1ppm	<0.1ppm
18	BACHERIAL ENDOTOXINS	≤0.5 IU/mg	/	PASS TEST	≤0.5 IU/mg	/	<0.5 IU/mg
CONCLUSION:THE PRODUCT IS IN CONFORMITY WITH BP2023, E330, USP46, EP11.0, FCC13. (STAMP)							

山东柠檬士化有限公司
 TTCA Co., Ltd.
