

MANUFACTURER: TTCA CO., LTD. ADDRESS: NO.27, XIN AN NAN ROAD, ANQIU, SHANDONG,CHINA TEL: +86 536 2262229 FAX: +86 536 4221500	 CERTIFICATE OF ANALYSIS	
BATCH NO.: A412001 MANUFACTURING DATE: DEC. 2024 EXPIRY DATE: DEC.2027 QUANTITY: 25MT TTCA24ZK93	PRODUCT NAME: CITRIC ACID ANHYDROUS 10-40 MESH	
	CAS NO.: 77-92-9	MOLECULAR FORMULA: C ₆ H ₈ O ₇
	DATE: DEC. 06, 2024	INVOICE NO.: TTCA2423198/2426451

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 & 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	≤1.0 %	≤0.5 %	≤1.0 %	≤1.0 %	≤0.5 %	0.08%
7	SULPHATED ASH	≤0.1 %	≤0.05 %	≤0.1 %	≤0.1 %	≤0.05 %	0.01 %
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	/	≤1 ppm	/	/	/	<0.1 ppm
15	MERCURY	/	≤1 ppm	/	/	/	<0.1 ppm
16	LEAD	/	≤0.5 ppm	/	/	≤0.5 ppm	<0.5 ppm
17	TRIDODECYLAMINE	/	/	/	/	≤0.1 ppm	<0.1 ppm
18	BACTERIAL 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 .

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山东柠檬生化有限公司

TTCA Co., Ltd.

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