

MANUFACTURER:  
TTCA CO., LTD.  
NO.27,XIN AN NAN ROAD,  
ANQIU, SHANDONG, CHINA



**CERTIFICATE OF ANALYSIS**

BATCH NO.:M104719

PRODUCT NAME: CITRIC ACID MONOHYDRATE BP2011  
(8-80 MESH)

QUANTITY  
P/I ENSIGN 212K03

INVOICE NO.:  
TTCA2100041

THIS IS TO CERTIFY THAT THE ANALYSIS RESULT OF THE GOODS IS AS FOLLOWS:

NO.	ITEM	BP2011	E330	USP34	FCC7	TTCA ENTERPRISE SPEC
1	CHARACTERISTICS	COLORLESS OR WHITE CRYSTAL				
2	IDENTIFICATION	PASS THE TEST				
3	LIGHT TRANSMITTANCE	/	/	/	/	≥97.0%
4	CLARITY&COLOUR OF SOLUTION	PASS TEST	/	PASS TEST	/	PASS TEST
5	ASSAY	99.5-100.5%	≥99.50%	99.5-100.5%	99.5-100.5%	99.8%
6	WATER	7.5-9.0%	≤8.8%	7.5-9.0%	≤8.8%	8.72%
7	SULPHATED ASH	≤0.1%	≤0.05%	≤0.1%	≤0.05%	≤0.05%
8	SULPHATE	≤150ppm	/	≤150ppm	/	≤20ppm
9	OXALATE	≤360ppm	≤100ppm	≤360ppm	NO TURBIDITY FORMS	≤20ppm
10	CALCIUM	/	/	/	/	≤20ppm
11	HEAVY METALS	≤10ppm	≤5ppm	≤10ppm	/	≤1ppm
12	IRON	/	/	/	/	≤1ppm
13	CHLORIDE	/	/	/	/	≤5ppm
14	READILY CARBURETED SUBSTANCES	NOT EXCEEDING THE STANDARD	NOT EXCEEDING THE STANDARD	NOT EXCEEDING THE STANDARD	A≤0.52 T≥30	K≤1.0
15	BACTERIAL ENDOTOXINS	≤0.5IU/mg	/	PASS TEST	/	≤0.5IU/mg
16	ALUMINIUM	≤0.2ppm	/	≤0.2ppm	/	≤0.2ppm
17	ARSENIC	/	≤1ppm	/	/	≤1ppm
18	MERCURY	/	≤1ppm	/	/	≤0.1ppm
19	LEAD	/	≤1ppm	/	≤0.5ppm	≤0.5ppm
20	TRIDODECYLAMINE	/	/	/	≤0.1ppm	≤0.1ppm
21	POLYCYCLIC AROMATIC HYDROCARBONS (PAH)	/	/	/	/	≤0.05 (260-350nm)
22	ISOCITRIC ACID	/	/	/	/	PASS TEST
23	WATER INSOLUBLE SUBSTANCES	/	/	/	/	FILTRATION TIME NOT MORE THAN 1MIN; FILTER MEMBRANCE DOESN'T BASICALLY CHANGE COLOR; VISUAL MOTTLED PARTICLES NOT MORE THAN 3

山东天泰生化有限公司  
TTCA CO., LTD.

(STAMP)

刘国江