

# CERTIFICATE OF ANALYSIS

RE.INV. NO.: SSE13621

DATE: FEB.15,2018

COMMODITY: CITRIC ACID ANHYDROUS FCCVIII/USP FINE GRANULAR  
30-100MESH

BATCH NO.:AA-1802-3071

NUMBER:50LB/BAG×880BAGS=19.9584MT

ANALYSIS DATE:FEB.14,2018

MANUFACTURING DATE: FEB.13,2018

EXPIRY DATE:FEB.12,2021

Item	Unit	STANDARD DATA	ACTUAL DATA
CHARACTERS	---	WHITE CRYSTALLINE POWDERS,COLORLESS CRYSTALS OR GRANULES	PASS TEST
IDENTIFICATION		PASS TEST	PASS TEST
COLOR &CLARITY OF SOLOTION		PASS TEST	PASS TEST
TRANSMITTANCE	%	≥96.0	98.8
ASSAY	%	99.5-100.5	99.97
WATER	%	≤0.5	0.17
HEAVY METALS	PPM	≤5	1
OXALATE	PPM	≤100	30
SULPHATE	PPM	≤150	45
CALCIUM	PPM	≤75	5
SULPHATE ASH	%	≤0.05	0.01
READILY CARBONISABLE SUBSTANCES	---	PASS TEST	PASS TEST
ALUMINUM	PPM	≤0.2	0.15
ARSENIC	PPM	≤1	0.1
BACTERIAL ENDOTOXINS	I.U./MG	≤0.5	0.38
CHLORIDE	PPM	≤50	1
IRON	PPM	≤5	1
LEAD	PPM	≤0.5	<0.5
MERCURY	PPM	≤1	<1
ORGANIC VOLATILE IMPURITY	---	PASS TEST	PASS TEST
TRIDODECYLAMINE	PPM	≤0.1	<0.1

CONCLUSION: THE QUALITY OF THIS LOT OF GOODS CONFORMING WITH THE  
STANDARD FCC/USP. ANALYSIS IS BASED ON IN PRODUCTION LINE CONTROL OR  
RANDOM TESTING

BBFY PO NO.: 17257

FDA REGISTRATION:17666026948

บริษัท ซันชาย ไบโอเทค อินเตอร์เนชั่นแนล จำกัด  
SUNSHINE BIOTECH INTERNATIONAL CO.,LTD.



# CERTIFICATE OF ANALYSIS

SHIGINA

RE.INV. NO.: SSE13513

DATE: OCT.30, 2017

COMMODITY: CITRIC ACID ANHYDROUS FCCVIII/USP FINE GRANULAR  
30-100MESH

BATCH NO.:AA-1710-3293

NUMBER:50LB/BAG×880BAGS=19.9584MT

ANALYSIS DATE:OCT.19,2017

MANUFACTURING DATE: OCT.16,2017

EXPIRY DATE:OCT.15,2020

Item	Unit	STANDARD DATA	ACTUAL DATA
CHARACTERS	---	WHITE CRYSTALLINE POWDERS,COLORLESS CRYSTALS OR GRANULES	PASS TEST
IDENTIFICATION (A,B)	---	PASS TEST	PASS TEST
COLOR & CLARITY OF SOLUTION	---	PASS TEST	PASS TEST
ASSAY	%	99.5-100.5	99.99
WATER	%	≤0.5	0.18
HEAVY METALS	PPM	≤5	1
OXALATE	PPM	≤100	30
SULPHATE	PPM	≤150	45
CALCIUM	PPM	≤20	5
SULPHATE ASH	%	≤0.05	0.01
READILY CARBONISABLE SUBSTANCES	---	PASS TEST	PASS TEST
ALUMINUM	PPM	≤0.2	0.15
ARSENIC	PPM	≤1	0.1
LEAD	PPM	≤0.5	0.2
BACTERIAL ENDOTOXINS	I.U./MG	≤0.5	0.35
STERILITY	%	PASS TEST	PASS TEST
RESIDUE ON IGNITION	%	≤0.05	0.04
CHLORIDE	PPM	≤50	1
IRON	PPM	≤50	1
SOLUTION COLOR	---	80 APHA MAX	40
ORGANIC VOLATILE IMPURITY	---	PASS TEST	PASS TEST
TRIDODECYLAMINE	PPM	≤0.1	0.01

CONCLUSION: THE QUALITY OF THIS LOT OF GOODS CONFORMING WITH  
THE STANDARD FCC8/USP36.

BBFY PO NO.:17185

FDA REGISTRATION:17666026948

บริษัท ซันชาย ไบโอเทค อินเตอร์เนชั่นแนล จำกัด  
SUNSHINE BIOTECH INTERNATIONAL CO.,LTD

# CERTIFICATE OF ANALYSIS

ORIGINAL

RE. INV. NO.: SSE13551

DATE: DEC.15, 2017

COMMODITY: CITRIC ACID ANHYDROUS FCCVIII/USP FINE GRANULAR  
30-100MESH

BATCH NO.: AA-1711-3356

NUMBER: 50LB/BAG × 880BAGS = 19.9584MT

ANALYSIS DATE: NOV.29,2017

MANUFACTURING DATE: NOV.22,2017

EXPIRY DATE: NOV.21,2020

Item	Unit	STANDARD DATA	ACTUAL DATA
CHARACTERS	---	WHITE CRYSTALLINE POWDERS,COLORLESS CRYSTALS OR GRANULES	PASS TEST
IDENTIFICATION (A,B)	---	PASS TEST	PASS TEST
COLOR & CLARITY OF SOLUTION	---	PASS TEST	PASS TEST
ASSAY	%	99.5-100.5	100.11
WATER	%	≤0.5	0.18
HEAVY METALS	PPM	≤5	1
OXALATE	PPM	≤100	30
SULPHATE	PPM	≤150	45
CALCIUM	PPM	≤20	5
SULPHATE ASH	%	≤0.05	0.01
READILY CARBONISABLE SUBSTANCES	---	PASS TEST	PASS TEST
ALUMINUM	PPM	≤0.2	0.15
ARSENIC	PPM	≤1	0.1
LEAD	PPM	≤0.5	0.2
BACTERIAL ENDOTOXINS	I.U./MG	≤0.5	0.35
STERILITY	%	PASS TEST	PASS TEST
RESIDUE ON IGNITION	%	≤0.05	0.04
CHLORIDE	PPM	≤50	1
IRON	PPM	≤50	1
SOLUTION COLOR	---	80 APHA MAX	40
ORGANIC VOLATILE IMPURITY	---	PASS TEST	PASS TEST
TRIDODECYLAMINE	PPM	≤0.1	0.01

CONCLUSION: THE QUALITY OF THIS LOT OF GOODS CONFORMING WITH  
THE STANDARD FCC8/USP36.

BBFY PO NO.:17211

FDA REGISTRATION:17666026948

บริษัท ซันชาย ไบโอเทค อินเตอร์เนชั่นแนล จำกัด  
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