



บริษัท ไทยซิตรีค แอซิด จำกัด
泰檸檬酸有限公司
THAI CITRIC ACID CO.,LTD.

สำนักงานใหญ่ 969 ถนนสุขุมวิท ซอยทองหล่อ แขวงคลองตันใต้ เขตคลองเตย กรุงเทพมหานคร 10150
Head Office 969 Bangkhunthian-Chaithalee Rd. Samsaeklam Bangkokthian, Bangkok 10150
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LEVEL7
CHEMICAL

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CERTIFICATE OF ANALYSIS

Product name : CITRIC ACID ANHYDROUS

Date : 20 July 2021

Batch No./ Mfg.Date : 182993/01-Jul-21

Best Before : 01-Jul-24

Parameter	Method for test	Physical / Chemical Specification	Result
Appearance	TISI 464-2544, BP 2018	Free-flowing, white or colorless granules and crystalline powder, free of foreign matter	Free-flowing, white or colorless granules and crystalline powder, free of foreign matter
Identification - Citrate	TISI 464-2544, BP 2018	Passes test	Passes test
% Assay	TISI 464-2544, BP 2018	99.5 to 100.5 %	100.07%
Water	TISI 464-2544	0.5 % Max	0.21%
Solubility	TISI 464-2544, BP 2018	Soluble in water and alcohol	Soluble in water and alcohol
Sulphate ash	TISI 464-2544, BP 2018	0.05 % Max	0.010%
Oxalate	JECFA 2014	100 ppm Max	less than 100 ppm
Sulphate	TISI 464-2544, BP 2018	150 ppm Max	less than 150 ppm
Arsenic	TISI 464-2544	1 ppm Max	Not detected
Heavy Metal (as Pb)	TISI 464-2544	5 ppm Max	less than 5 ppm
Barium	TISI 464-2544	Passes test	Passes test
Calcium	TISI 464-2544	200 ppm Max	less than 200 ppm
Iron (Fe)	TISI 464-2544	50 ppm Max	Not detected
Lead (Pb)	AAS	0.5 ppm Max	Not detected
Chloride	TISI 464-2544	50 ppm Max	less than 50 ppm
Mercury	AAS	0.5 ppm Max	Not detected
Readily carbonizable Substances (RCS)	TISI 464-2544, BP 2018	Passes test	Passes test
Aluminium	Based on BP 2018	0.2 ppm Max	less than 0.2 ppm
Tridodecylamine	FCC 11	0.1 ppm Max	less than 0.1 ppm
Bacterial endotoxins	Based on BP 2018	0.5 IU/mg Max	less than 0.25 IU/mg
Genetically Modified Organism	PCR analysis	Not detected	Not detected

Remarks : Company also has certificate of

- Food And Drug Administration (อย.)
- Thai Industrial Standards (มอก.)
- Kosher (โคเชอร์)
- Halal (ฮาลาล)
- Food Safety System Certification 22000

On behalf of Thai citric acid CO.,LTD.

MISSJWAN

(Miss Sujiwan Thongper)

Reporter

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(Miss Yupa Tongbai)

Quality Assurance Manager