The Soap Kitchen (2011) Ltd

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## **CERTIFICATE OF ANALYSIS**

E 330

Product : Citric Acid Monohydrate Fine Granular

 Lot number
 : UJ923
 Manufacturing date
 : 06/2019

 Date issued
 : 11/06/2019
 Best use before
 : 06/2022

 Date printed
 : 14/06/2019
 Customer Order
 : 3712082

CB Delivery Number : 3722178259 CB Material Number : 0432776722 Destination : WIDNES

The Quality Assurance Department certifies that this lot is conform our specifications.

The product meets all requirements of the following compendia, when tested accordingly: USP, FCC, Ph. Eur., JP, JECFA and

Commission Regulation (EC) N° 231/2012.

Test	Method	Results	Units	CB specifications
Tested methods **				
	visual test	meets specification		colourless crystals or white, granular to fine powder
Odour	odour test *	meets specification		odourless
Water	Karl-Fisher titration	8.14 / 8.58	% H <sub>2</sub> O	8.10 - 8.70
Identification	EP *	meets specification	2	meets requirements
Sieving on (50 g, 5 minutes)	sieve test N°20 (850 µm)	1.1	%	max 5.0
Sieving through	sieve test N°100 (150 µm)	3.9	%	max 5.0
Colour	UV/VIS (50% w/v; 405 nm 1 cm cell)	99.21	% T	98.00 - 100.00
Clarity of solution	Colour *	meets specification		meets requirements
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Heavy metals	ICP *	< 1	ppm	< 1
(sum: Cd, Cr, Cu, Pb, Hg, Zn, Ni)				
Aluminium	ICP *	< 0.2	ppm	< 0.2
Arsenic	ICP *	< 1	ppm	< 1
Barium	ICP *	< 1	ppm	< 1
Calcium	ICP *	< 10	ppm	< 10
Chlorides	nephelometry *	< 5	ppm	< 5
Copper	ICP *	< 1	ppm	< 1
Iron	ICP *	< 1	ppm	< 1
Lead	ICP *	< 0.5	ppm	< 0.5
Magnesium	ICP *	<1	ppm	< 1
Mercury	ICP *	< 1	ppm	< 1
Oxalates / oxalic acid	HPLC *	< 10	ppm	< 10
Sulphates	ICP *	< 30	ppm	< 30
Zinc	ICP *	< 1	ppm	< 1
Readily carbonizable substances	EP	meets specification		meets requirements
Extraneous matter	CB test	meets specification		passes CB test
Assay	calculated by water content	99.99 / 100.43	%	99.80 - 100.50
Sulphated ash/residue on ignition	FCC	meets specification		meets requirements
Not tested methods:				
Tridodecylamine				Not applicable for CB, only for solvent extracted citric acid.
** Tost methods are available on request				

<sup>\*\*</sup> Test methods are available on request.



<sup>\*</sup> Results are confirmed by representative testing on finished products.