



KİMYA SANAYİ ve DIŞ TİCARET ANONİM ŞİRKETİ

CERTIFICATE OF ANALYSIS

Commodity : Citric Acid
Date of Manufacture : April 2022
Best Before : April 2024
Origin : Turkey

Analysis	Specification	Unit	Result	Method
Taste	Sour	-	Sour	Organoleptic
Odor	Odorless	-	Odorless	Organoleptic
Appearance	Solid crystal	Test fit	White solid crystal	Organoleptic-TS EN ISO 5492
Resolution	very soluble in water, freely soluble in ethanol, sparingly soluble in ether	Test fit	Test fit	EP/8
Recognition test	Test fit	Test fit	Test fit	EP/8-USP 43
Purity	99,5-100,5	%	100,14	EP/8-USP 43-E330-FCC
Moisture content	0,0-0,5	%	0,26	EP/8-USP 43-E330-FCC
Chlorine	<5	ppm	<4	EP/8
Sulphate	<30	ppm	2,1	USP/43-EP/8
Oxalate	≤100	ppm	0,036	EP/8-USP 43-E330-FCC
Carbonization	Test fit	Test fit	Test fit	EP/8-USP 43-E330-FCC
Sulphate ash	≤0,05	%	0,02	EP/8-USP 43-E330-FCC
Solution view	Test fit	Test fit	Test fit	EP/8

Heavy Methals Analysis	Specification	Unit	Result	Method
Cadmium	<0,1	ppm	Not detected	NMKL 186(1CP-MS)
Chromium	<1	ppm	Not detected	NMKL 186(1CP-MS)
Nickel	<1	ppm	Not detected	NMKL 186(1CP-MS)
Arsenic	<1	ppm	Not detected	AAS
Lead	<0,5	ppm	Not detected	AAS
Quicksilver	<1	ppm	Not detected	AAS
Copper	<1	ppm	Not detected	AAS
Zinc	<1	ppm	Not detected	AAS
Barium	<1	ppm	<0,2	NMKL 186(1CP-MS)
Calcium	<10	ppm	Not detected	AAS
Magnesium	<1	ppm	Not detected	AAS
Aluminium	<0,2	ppm	<0,2	NMKL 186(1CP-MS)
Fe	<1	ppm	0,21	AAS
Sieve size	A1	%	Coarse Grain Above 2500 µm Below 500 µm	vibrating sieve device

Microbiology Analysis	Specification	Unit	Result	Method
Total number of bacteria	<10 ²	cfu/g mL	<10 ²	ISO 4833-1
Yeast-mold	<10 ³	cfu/g mL	<10 ³	ISO 21527-1
E.Coli	≤10	cfu/g mL	≤10	ISO 16649-2
Salmonella	0/25	cfu/g mL	0/25	EN/ISO 6579
Enterobacteraceae	<10	cfu/g mL	<10	ISO 215288-1

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