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CERTIFICATE OF ANALYSIS

Product name	2-KETOGLUTARIC ACID
CAS NO	328-50-7
Batch No	230415
Quantity	120kg
Manufacture date	Apr 15,2023
Analysis date	Apr 15,2023
Quality Standard	Enterprise standard

Inspection	Standard	Test Results
Appearance	White to Off-white Crystalline powder	Conforms
Assay	99.0%-101.0%	99.1%
Solubility	Clear	Conforms
Transmittance	$\geq 98.0\%$	98.3%
Loss on drying	$\leq 0.5\%$	0.34%
Residue on ignition	$\leq 0.1\%$	0.06%
sulfate	$\leq 0.02\%$	<0.02%
chloride	$\leq 0.02\%$	<0.02%
Ammonium ion	$\leq 0.02\%$	<0.02%
Calcium ions	$\leq 0.02\%$	<0.02%
Iron ions	$\leq 10\text{ppm}$	Conforms
Heavy metals(Pb)	$\leq 10\text{ppm}$	Conforms
As	$\leq 1\text{ppm}$	Conforms
Total plate count	$\leq 1000\text{cfu/g}$	Conforms
Yeast	$\leq 50\text{cfu/g}$	Conforms
Mold	$\leq 50\text{cfu/g}$	Conforms
E.coli	Negative	Conforms
Salmonella	Negative	Conforms
Conclusion	1)The result conforms to the enterprise standard as above 2) For Laboratory Use Only	

Q.C.Director:

Analyst:

Collator:

