


CERTIFICATE OF ANALYSIS

Ref No : 521/COA-R1/QC/JMR/JX24
Date : September 13, 2024
Product : Refined Crystal Sugar
Type : R1
Batch Number : 12SEP24-3 *
Best Before Used : 12SEP26
Chemical name : Sucrose (C₁₂H₂₂O₁₁)

Parameter	Unit	Result	Standard	Remark
Pol (20° C)	°Z	99.90	99.8 min	ICUMSA Method GS 2/3-1(2011)
Assay Purity	%	(99.93)	(99.9) min	
Moisture Content	%	0.03	0.05 max	ICUMSA Method GS 2/1/3/9-15(2007)
Ash Content	%	0.005	0.015 max	ICUMSA Method GS 2/3-17 (2011)
Colour	IU	31	35 max	ICUMSA Method GS 2/3-9 (2005)
Invert Sugar / Reducing Sugar	%	0.032	0.04 max	ICUMSA Method GS 2/3/9 -5 (2011)
Ca	ppm	22		Method FFI - 1632
Particle Size				ICUMSA 2005
Distribution of Grain size :				Method GS 2-37 (1994)
not pass through 0,850 mm	mm	5.40		
not pass through 0,710 mm	mm	15.40		
not pass through 0,600 mm	mm	22.40		
not pass through 0,500 mm	mm	21.70		
not pass through 0,425 mm	mm	14.70		
not pass through 0,300 mm	mm	14.70		
not pass through 0,250 mm	mm	2.80		
pass through (Base Pan)	mm	2.90		
Mean Aperture (MA) (mm)	mm	0.58		
Coefficient of Variant (CV) (%)	%	29.12		
Appearance		White Crystal With No Foreign Materials	White Crystal With No Foreign Materials	Visual
Taste		Sweet	Typically Sweet With No Foreign Tastes	Visual
Odour		Normal	No Foreign Odours	Organoleptic
Total Mesophilic Bacterial *	CFU/10g	10	2 x 10 ² max	SNI 01-3140-2 : 2011
Yeast *	CFU/10g	2	10 max	SNI 01-3140-2 : 2011
Mold *	CFU/10g	Nil	10 max	SNI 01-3140-2 : 2011
Coliform *	MPN/g	Below 3.0	<3	SNI 01-3140-2 : 2011
Lead *	mg/kg	Below 0.0134	0.25 max	SNI 3140-2 : 2018
Copper *	mg/kg	Below 0.0080	2.0 max	SNI 01-2896-1998
Arsenic *	mg/kg	Below 0.0002	1.0 max	SNI 3140-2 : 2018
Cadmium *	mg/kg	Below 0.0013	0.2 max	SNI 3140-2 : 2018
Tin *	mg/kg	Below 0.0776	40 max	SNI 3140-2 : 2018
Mercury *	mg/kg	Below 0.0002	0.03 max	SNI 3140-2 : 2018
Sediment	mg/kg	6.98	7.0 max	ICUMSA Method GS 2/3/9 - 19 (2007)
Sulfur Dioxide *	mg/kg	0.45	2.0 max	SNI 3140-2 : 2018

* Angka 1; 2; 3 pada batch number menunjukkan jam produksi sebagai berikut : 1 = jam 06.01 s.d 14.00 ; 2 = jam 14.01 s.d 22.00 ; 3 = jam 22.01 s.d 06.00
* Six Month / Year Analysis at Independent Laboratory. Base on certificate Sucofindo 4831687, 4831688, 4831689

Prepared by:


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"The results of these tests relate only to the sample(s) submitted and the report shall not be reproduced except in full context, without the written approval of PT Jawamanis Rafinasi"

Approved by:


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