

Date: 06-Mar-2023

RAMZAN SUGAR MILLS LTD

Analytical Report KRC23-00209.001

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This laboratory is accredited under ISO/IEC 17025. The results reported herein have been performed in accordance with the laboratory's term of accreditation except calibrations/tests marked with an asterisk (*) in this report which are not within the scope of accreditation for our laboratory.

Client ID:	RAMZAN SUGAR MILLS LTD	Product Description:	Ethanol - ENA 96%
Location:	--	Source ID:	ONLINE
Sample Source:	DISTLLERY	Sampled By:	SGS
Sample Type:	Line	Received:	06-Mar-2023
Sampled:	02-Mar-2023 - 02-Mar-2023	Completed:	06-Mar-2023
Analysed:	06-Mar-2023		
Seal No:	587304		
Sub-sample:	[1: 500 mL Glass Bottle];		

Property	Method	Result Unit	Min	Max
Alcoholic Strength - Ethanol	ASTM D1298 / ASTM D4052 + OIML (Int)	96.62 % v/v	96.2	--
Nonvolatile Matter	ASTM D1353	<0.5 mg/100 mL	--	1.0
Acidity (as Acetic Acid)	ASTM D1613	0.84 g/hL	--	1.0
Volatile Impurities in Ethanol by GC-FID	OGC TG ETOH-02 (SGS In-House)			
n-Pentanol		<0.2 g/hL	--	0.5
iso-Pentanol		<0.2 g/hL	--	0.5
n-Butanol		<0.2 g/hL	--	0.5
Iso Butanol		<0.2 g/hL	--	0.5
Crotonaldehyde LDL = 0.2 g/hl		Not Detected g/hL	Absent	--
Ethylacetate		<0.2 g/hL	--	0.5
Furfural LDL = 0.2 g/hl		Not Detected g/hL	Negative	--
Methanol		<0.2 g/hL	--	0.5
n-Propanol		<0.2 g/hL	--	0.5
Iso Propanol		0.65 g/hL	--	1.5
Acetaldehyde		<0.2 g/hL	--	0.5
Permanganate Time of Ethanol at 20°C §	ASTM D1363	32 min	25	--
Water Miscibility	ASTM D1722	Passes Test	Absent	--
Odour	ODOUR	Neutral	--	Neutral

§ - Analyte not in published method scope

Reported by



Zeeshan Akbar
Chemist

Authorised Signatory



Syed Iftikhar Ahmed
Manager Lab



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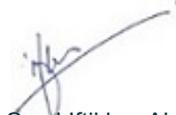
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Property	Method	Result Unit	Min	Max
Contaminants in Ethanol by UV Scan	UV-SGS-CORP-13.001			
Absorbance at 220nm §		0.1700 Abs.	--	0.25
Absorbance at 230nm		0.0916 Abs.	--	0.12
Absorbance at 240nm		0.0434 Abs.	--	0.06
Absorbance at 270nm		0.0074 Abs.	--	0.02
Impurities in Ethanol - Qualitative		Smooth	--	Smooth
Aspect *	Visual	Clear liquid free from suspended matter	--	Clear liquid free form suspended matter
End of Analytical Results				

This document is only valid in its entirety and your attention is drawn to the Terms and Conditions on Page 1 of this report.

Reported by

Authorised Signatory

Zeeshan Akbar
Chemist

Syed Iftikhar Ahmed
Manager Lab

