



# PERMATA HIJAU GROUP

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## ANALYSIS CERTIFICATE

Name of product : CBS (COCOA BUTTER SUBSTITUTE)

Batch NO.: 1879-24/AAJ

Production date : 15 DEC 2024

Expiry date : 15 DEC 2026

Specification	Acceptable limit
iodine value (wijs method)	0-5
saponification number( SV) (mg of potash for 1g oil)	220-255
Slip melting Point	33-35
unsaponifiable materials (%)	Max 0.6
Stability (Rancimat ) (In 2.5 g sample & 110° C )	Min 40
Solid fat Content (SFS) ( In 35 ° C)	Max 5
Color (with lovibond tintometer 5 ¼ inch)	Max 1.0 R/10 Y
Taste & odor	Natural and free from any bad odor and bad flavour
Free fatty acid as lauric (%)	Max 0.1
Peroxide number (meq/kg)	Max 1
Moisture & volatile material in temperature of 103±1 °C (w/w%)	Max 0.1
Insoluble impurity (w/w%)	Max 0.05
Soap (ppm)	Max 5
Mineral oil & foreign material	Not detected
Residual solvents (ppm)	0
Benzene (ppm)	Not detected
Fe(ppm)	Max 0.5
Cu (ppm)	Max 0.1
Pb (ppm)	Max 0.1
As (ppm)	Max 0.1
Ni (ppm)	Max 1

**Sign/stamp:**

Medan, Indonesia

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Assistant Manager Sari Nauli