



CERTIFICATION OF ANALYSIS (JECFA SPECIFICATIONS)

REPORT DESCRIPTION :

REPORT No. :	REPORT DATE :
ANALYSIS No. :	ANALYSIS DATE :
SERVICE ORDER AGREEMENT No. :	SAMPLE RECEIVED DATE :
EXPORT INVOICE No. or PO No. / DATE:	ANALYSIS BY :

CUSTOMER DESCRIPTION :

CUSTOMER NAME :
CUSTOMER ADDRESS :
TEL. No. / FAX. No. :
Attn. to :

SAMPLE DESCRIPTION (By Customer) :

SAMPLE TYPE :	SAMPLING RECEIVED IN :
SAMPLE POINT / LOCATION :	- Cylinder No. :
SAMPLING DATE :	- Sampling Kit : Small Cylinder no. :
SAMPLING TIME :	Beaker no. :
SAMPLING BY :	Sampling Bags no. :

ANALYSIS DESCRIPTION :

TEST PARAMETER	UNIT	TEST METHOD	ISBT Reference no.	TEST RESULT	DL	SPECIFICATION
CO2 Purity (Assay)*	% v/v	Zahm & Nagel	ISBT 2.0		99.00	Min. 99.90
Moisture Content / Water (H2O)*	ppm v/v	Moisture Analyzer	ISBT 3.0		0.25	Max. 20.0
Non-Volatile Residue (NVR)/ Non-Volatile Hydrocarbons*	ppm w/w	Gravimetry	ISBT 8.0		1.5	Max. 10.0
Non-Volatile Organic Residue (NVOR)/Oil*	ppm w/w	Gravimetry	ISBT 8.0		1.5	Max. 5.0
Volatile Hydrocarbon (THC) (as CH4)*	ppm v/v	Gas chromatography	ISBT 10.0		0.15	Max. 50.0
Carbon Monoxide (CO)	ppm v/v	Inhouse method ²	ISBT 5.0		0.5	Max. 10.0
Phosphine, Hydrogen Sulfide and Other organic reducing substances*	-	JECFA Test	-		na	Pass JECFA Test
Acidity*	-	JECFA Test	-		na	Pass JECFA Test
Appearance in Water *	-	Organoleptic	ISBT 16.0		na	No Color or Turbidity
Odor in Water*	-	Organoleptic	ISBT 16.0		na	No Foreign Odor

Note : (1) Inhouse method WI-LAB08 based on International Society of Beverage Technologists (ISBT)- 4th Revision, 01 Oct 2021, Procedure 10.0

(2) Inhouse method WI-LAB06 based on ASTM D8098-17.

(3) Inhouse method WI-LAB03 & WI-LAB07 based on International Society of Beverage Technologists (ISBT)- 4th Revision, 01 Oct 2021, Procedure 12.0

(4) Inhouse method WI-LAB04 based on International Society of Beverage Technologists (ISBT)- 4th Revision, 01 Oct 2021, Procedure 13.0

(5) Inhouse method WI-LAB05 based on International Society of Beverage Technologists (ISBT)- 4th Revision, 01 Oct 2021, Procedure 11.0

(*) Test marked "Not TISI Accredited" in this certificate are not included in the TISI Accreditation Schedule for our laboratory.

- The reported uncertainty is an expanded uncertainty calculated using a coverage factor of k=2 which gives a level of confidence of approximately 95%

DL = Detection Limit. nd = less than the detection limit. ppm = parts per million. ppb = parts per billion. na = not available.

Review by :

(Thatchayaphan Thongmuengluang)

Approved by :

(Tippawan Pichetjumsueep)

Remark :

- Partial duplication of this certificate without documentary permission from Laboratory is prohibited.
- This certificate is valid only for the test and mentioned sample(s).
- The laboratory disclaims responsibility for The information is supplied by the customer and can affect the validity of results.
- The certificate that the results apply to the sample as received.
- The laboratory does not have a policy to reporting opinions , interpretations and statements of conformity.
- The laboratory disclaims in the report indicating which results may be affected by the deviation.