



CMBTCTM
CANADIAN MALTING BARLEY TECHNICAL CENTRE

2019-20

Professional Analytical Services Catalogue



www.cmbtc.com

CMBTC Fee-for-Service Costs

All prices are in Canadian dollars.

CMBTC Members will receive the following discounts off of all base prices:

Membership	Discount
Voting & Tier 1	25%
Tier 2	20%
Tier 3	15%

Please contact us for inquiries regarding membership.

Catalogue #	Barley Analysis	Cost per sample	Sample Quantity Required
CMBTC1000	Comprehensive <i>Includes general appearance, moisture, protein, sizing, germination energy, water sensitivity, 1000 Kernel Weight</i>	\$150	400 g
CMBTC1010	Moisture	\$25	100g
CMBTC1020	Protein	\$25	100g
CMBTC1030	Sizing	\$25	100g
CMBTC1040	Germination Energy	\$50	100g
CMBTC1050	Water Sensitivity	\$50	100g
CMBTC1060	Germination Capacity	\$50	100g
CMBTC1070	1000 Kernel Weight	\$25	100g
CMBTC1080	RVA	\$65	50 g
CMBTC1090	Vomitoxin	\$50	100g

Catalogue #	Malt Analysis	Cost per sample	Sample Quantity Required
CMBTC2000	Comprehensive (Wet Chemistry) <i>Includes moisture, fine and coarse grind extract, soluble and total protein (Kolbach Index), diastatic power, alpha amylase, viscosity, friability, beta-glucan, FAN, colour</i>	\$200	500 g
CMBTC2000a	Essentials (Wet Chemistry) <i>Includes fine extract, soluble protein, diastatic power, friability, beta-glucan, colour</i>	\$150	500 g
CMBTC2010	NIR analysis* <i>Includes moisture, fine and coarse grind extract, soluble and total protein (Kolbach Index), diastatic power, alpha amylase, viscosity, friability, beta-glucan, FAN, colour</i>	\$65	50 g
CMBTC2020	NIR analysis for Multiple Samples (5 or more)* <i>Includes moisture, fine and coarse grind extract, soluble and total protein (Kolbach Index), diastatic power, alpha amylase, viscosity, friability, beta-glucan, FAN, colour</i>	\$35	50 g

*Predictive indicators

Catalogue #	Beer Analysis*	Cost per sample	Sample Quantity Req'd (bottle)
CMBTC3000	Comprehensive <i>AE, RE, Alcohol, Color, pH, COE, Foam (NIBEM), CO₂, Bitterness, FTU</i>	\$195	12
CMBTC3020	Basic Analysis <i>AE, RE, Alcohol, Color, pH, COE, calories</i>	\$50	2
CMBTC3040	CO ₂	\$25	3
CMBTC3050	Carbohydrates (by HPLC) <i>Maltotetraose, Maltotriose, Maltose, Glucose, Fructose</i>	\$210	2
CMBTC3060	Foam (NIBEM)	\$40	3
CMBTC3070	Bitterness	\$45	2
CMBTC3080	Chill Haze & Forced Turbidity	\$40	3
CMBTC3090	Diacetyl by Gas Chromatography	\$100	2

**The CMBTC schedules regular analysis during each month when multiple samples can be run at one time. A rush job may be subject to additional costs.*

Additional Fee-for-Service

The CMBTC can perform pilot malting and brewing trials on a fee-for-service basis. Please note additional costs may apply depending on the specific project. Contact us for an estimate.

Standard Pilot Malting Trial, 60 kg	\$2,500
Micro-malting Trial	
1 sample, 1 kg	\$400
10 samples, 1kg	\$3,500
20 samples, 500g	\$4,500
Includes barley analysis for each sample (protein, sizing, 4ml and 8 ml germination tests). Additional costs for malt analysis (\$200 per sample analyzed).	

Standard Pilot Brewing Trial, 2.5 hl	\$2,200
Filtration	\$850
Packaging	\$850
Small Pilot Brewing Trial, 10L	\$1,800
Brewing trials (Ale or Lager) include up to 7 day fermentation. Additional costs may include brewing materials, packaging, shipping, mash filter operation, and additional fermentation or lagering time.	
Each brewing trial includes processing data (conversion time, lautering, turbidity) as well as beer analysis (x, x and x).	



SAMPLE ANALYSIS REQUEST/CHAIN OF CUSTODY FORM

Please mark shipment as follows:
 "Samples for Analysis Only, Not for Human Consumption"

**Send to: Canadian Malting Barley Technical Centre
 1365-303 Main Street
 Winnipeg, Manitoba
 Canada R3C 3G7**

NOTE: *All first time customers are required to pay in advance for analysis (we currently only accept cheques and e-transfers)*

If sending samples, please contact either: Aaron Onio (204) 984-8373 or Andrew Nguyen (204) 983-5642

Date sample sent: _____

Name of person(s) requesting analysis: _____

Telephone Number: _____

E-mail address: _____

Payment Method: _____

Sample Description e.g.: Beer	Style IPA	Catalogue # and Analysis Description CMBTC3000 Comprehensive Analysis

SAMPLE RECEIPT / CUSTODY / STORAGE
 All samples submitted, as well as sample containers, will be retained for a period of 30 days for most samples, and 14 days for liquid samples. Samples can be stored beyond the normal retention period at the client's request, which are subject to a storage surcharge. Return of samples and containers to the client may be done by written request only, and is at the discretion of the CMBTC.