



**CMBTC**<sup>TM</sup>  
CANADIAN MALTING BARLEY TECHNICAL CENTRE

**2018-19**

## Professional Analytical Services Catalogue



[www.cmbtc.com](http://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
<b>Voting &amp; Tier 1</b>	<b>25%</b>
<b>Tier 2</b>	<b>20%</b>
<b>Tier 3</b>	<b>15%</b>

*Please contact us for inquiries regarding membership.*

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

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

\*Predictive indicators

Catalogue #	Beer Analysis	Cost per sample	Sample Quantity Req'd (bottle)
CMBTC3000	<b>Comprehensive</b> <i>AE, RE, Alcohol, Color, pH, COE, Foam (NIBEM), O<sub>2</sub>, CO<sub>2</sub>, Bitterness, FTU</i>	<b>\$195</b>	12
CMBTC3010	<b>Basic Analysis</b> <i>AE, RE, Alcohol, Color, pH, COE, calories, CO<sub>2</sub></i>	<b>\$80</b>	2
CMBTC3020	<b>Basic Analysis (5 or more samples)</b> <i>AE, RE, Alcohol, Color, pH, COE, calories, CO<sub>2</sub></i>	<b>\$50</b>	2
CMBTC3040	CO <sub>2</sub>	<b>\$25</b>	3
CMBTC3050	Carbohydrates (by HPLC) <i>Maltotetraose, Maltriose, Maltose, Glucose, Fructose</i>	<b>\$210</b>	2
CMBTC3060	Foam (NIBEM)	<b>\$40</b>	3
CMBTC3070	Bitterness	<b>\$45</b>	2
CMBTC3080	Chill Haze & Forced Turbidity	<b>\$40</b>	3
CMBTC3090	Diacetyl by Gas Chromatography	<b>\$100</b>	2

### 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.

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

<b>Standard Pilot Brewing Trial, 2.5 hl</b>	<b>\$2,200</b>
<b>Filtration</b>	<b>\$850</b>
<b>Packaging</b>	<b>\$850</b>
<b>Small Pilot Brewing Trial, 10L</b>	<b>\$1,800</b>
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.