

EBC Analysis Committee

16th Standard Malt, 2005

Submitted on behalf of the Analysis Committee of the European Brewery Convention

The 16th Standard Malt has been accepted after analysis by the Analysis Committee of the European Brewery Convention. The malt can be used for checking the results of test methods described in Analytica-EBC or for calibration of apparatus (e.g. friabilimeter) or other methods (flow injection, near infrared reflectance, etc.).

Descriptors: EBC Analysis Committee, standard malt, calibration, Analytica-EBC

1 To place an order contact

IFBM, Pôle Technologique de Nancy-Brabois, 7, rue du Bois-de-la-Champelle, B.P. 267, F-54512 Vandoeuvre les Nancy Cedex, France, Fax: +33 3 83 44 12 90, e-mail: christophe.rampont@ifbm-qualtech.com, or: nathalie.ouarnier@ifbm-qualtech.com.

Price

Price per tin (600 g): 17,50 Euro plus charge for conveyance.

Payment

Payment has to be made in advance by remittance order on receipt of the invoice to:

IBAN: FR76 3008 7336 8000 0109 4800 118,

BIC (Bank Identification Code): CMCIFR2Y,

Name of the bank: SNVB CAE NANCY,

Address of the bank: 44, rue des Dominicains, BP 840, F- 54011 NANCY CEDEX, France.

Order for EBC Malt

All bank charges to the debit of your account (AOR).

Shipment

On receipt of the amount immediate delivery (overseas export usually by air freight).

2 Analysis of the 16th EBC Standard Malt

issued by the EBC Analysis Committee in 2005.

Results are shown in the table below.

		EBC Method	n	Reference value	Tolerance ±	Repeatability r_{95}
Moisture	%	4.2	28	4,1	0,2	0,22
Total Nitrogen	% dm	4.3.1	28	1,62	0,065	0,04
Fine Grind Extract	% dm	4.5.1	28	83,5	0,54	0,56
Wort Colour (spectro)	EBC units	4.7.1	23	3,9	1,13	0,44
Wort Colour (visual)	EBC units	4.7.2	27	3,2	0,65	0,33
Wort Viscosity	mPa.s	4.8	27	1,55	0,034	0,022
Wort Soluble N	mg/l	4.9.1	22	728	73	19,8
Wort Soluble N	% dm	4.9.1	23	0,66	0,04	0,015
Kolbach Index	%	4.9.1	29	41	1,9	1,9
Wort FAN	mg/l	4.10	27	141	10,3	9,0
Wort FAN	% dm	4.10	18	0,13	0,010	0,009
Fermentability	%	4.11.1	16	82,8	3,50	1,2
Diastatic Power	WK/dm	4.12	23	260	36	18
α -Amylase	DU/dm	4.13	9	53	14	2,0
Modification	%	4.14	17	93	8,8	3,0
Homogeneity	%	4.14	21	78	19,7	7,7
Friability [#]	%	4.15	7 [#]	84,5 [#]	4,11 [#]	2,8 [#]
Glassy Corns [#]	%	4.15	7 [#]	0,3 [#]	0,2 [#]	0,46 [#]
Partly Unmod. Grains [#]	%	4.15	7 [#]	3,2 [#]	1,8 [#]	2,1 [#]
Total β -Glucan fluo.	mg/l	4.16.2	19	178	34	27,4
Wort pH		4.18	27	5,96	0,08	0,046
Boiled Wort Colour	EBC units	4.19	24	5,1	1,14	0,90

The figures for Friability[#], Glassy Corns[#] and Partly Unmodified Grains[#] are based on the Friabilimeter Calibration Network (FCN).

For each method, the following values have been calculated:

- reference value,
- tolerance (95 % confidence level),
- repeatability (95 % confidence level).

The table should be used as follows to check duplicate results obtained when analysing the malt:

1 the difference between duplicates should be less than r_{95} ,

2 the mean result should lie within the range: reference value \pm tolerance.

For example, the measurement of Total Nitrogen % dry matter, the difference between duplicates should not exceed 0,041 % d.m and the mean value should be $1,615 \pm 0,065$, that is between 1,550 and 1,656 % d.m.

Note: Because of the risk of uptake of water and change of values once the tin has been opened an immediate use is recommended.