

Malt Analysis Report

DATE: July 31, 2017

FOR: John Sherck
Sherck Seeds
Bristol, IN

Sample Description	S'orgiu Sardu 2 Row Barley
Lab ID	B-17-103
Moisture, %	4.4
Friability, %	83.6
Fine Extract, % D.B.	80.6
Color, °SRM	3.26
β-glucan, mg/L	234
Soluble Protein, %	5.85
Total Protein, %	11.9
S/T, %	49.2
FAN, mg/L	261
Diastatic Power, °L	128
α-amylase, D.U.	54.8
Filtration Time	normal
Clarity	clear
pH	5.89

Please Note: Results are representative of the submitted sample only.

If you have any additional questions or need assistance interpreting your results please contact Aaron MacLeod at macleoda@hartwick.edu or (607) 431-4232

Methods of Analysis

α -amylase	Alpha-Amylase activity is determined by segmented flow analysis using the iodine/dextrin method (ASBC Malt-7C)
β-Glucan	Beta-Glucan content in wort is determined by segmented flow analysis using calcofluor staining of soluble, high molecular weight β -glucan (ASBC Wort-18B).
Diastatic power	Diastatic power is determined by segmented flow analysis, using a automated reducing sugar assay, which is calibrated using malt standards analysed using the official ferricyanide reducing sugar method (ASBC Malt 6C).
Extract	Find and coarse grist is obtained using the Buhler DFLU laboratory malt mill. Congress extracts are prepared using an Industrial Equipment Corporation programmable mash bath (ASBC Malt-4). Density is determined at 20°C using an Anton Paar DMA 5000 digital density meter.
Free Amino Nitrogen (FAN)	Free amino nitrogen is determined by segmented flow analysis using the ninhydrin method (ASBC Wort-12).
Friability	Malt modification by friability is determined on a 50g portion of malt using the Pfeuffer Friabilimeter (ASBC Malt-12)
Kolbach Index (S/T)	Kolbach index is calculated from the formula, (Soluble protein % /Malt protein %) x 100.
Moisture	Moisture content of malt is determined gravimetrically by loss of weight on oven drying for 3h @ 105°C (ASBC Malt-3)
Wort Color	Color is determined spectrophotometrically by measuring the absorbance of clear wort in a 10mm cell at 430nm and reported in °SRM (ASBC Malt-9/Beer-10)
Wort-soluble protein	Wort-soluble protein is determined by UV spectrophotometry (ASBC Wort-17).