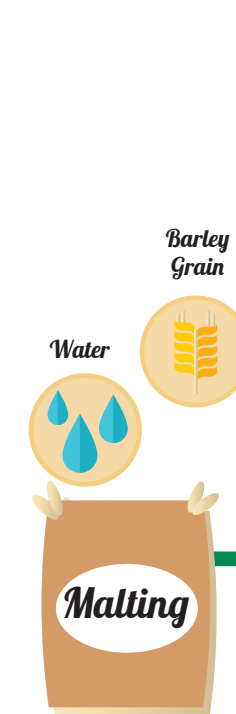




Brewing Industry Test Kits

Analyte	Product / Cat. No.	Analyte Significance	Advantages of Megazyme Test Kits
α-Amylase	Ceralpha Method (K-CERA) β-Limit Dextrin (P-BLDX)	A key indicator of malt quality. An endo-acting enzyme that hydrolyses α-1,4 glucose linkages in starch. Responsible for releasing fermentable sugars from starch during the mashing phase of wort production.	Novel assay employing a defined oligosaccharide substrate. High sensitivity & specificity. AOAC Method 2002.01; AACC Method 22-02.01; ICC Standard Method no. 303; RACI Standard Method; CCFRA Flour Testing Working Group Method 0018 Widely used in automated procedures for the measurement of α-amylase particularly with Scalar CFA equipment
β-Amylase	Betamyli-3 Method (K-BETA3)	A key indicator of malt quality. An exo-acting enzyme that cleaves maltose units from the non-reducing end of α-1,4 oligosaccharides & starch fragments. Responsible for releasing fermentable sugars from starch during the mashing phase of wort production.	Only kit available. Stable reagents; RACI Standard Method
Malt Amylase	K-MALTA (Malt Amylase Kit)	Measurement of α-amylase & β-amylase. Key indicators of malt quality. Responsible for releasing fermentable sugars from starch during the mashing phase of wort production.	Combination of both K-CERA & K-BETA3
β-Glucan (Barley & Oats)	β-Glucan Kit (Mixed Linkage) (K-BGLU)	The major polysaccharide of the cell-walls of endosperm in barley & oat grains. A high level of β-glucan is associated with undesirable high viscosity worts.	Rapid reaction, stable reagents, only enzymatic kit available. AOAC Method 995.16; AACC Method 32-23.01; ICC Standard Method No. 166; RACI Standard Method
β-Glucanase	β-Glucanase Kit (Malt & Microbial) (K-MBGL)	A key enzyme in the hydrolysis of β-glucans during malting & mashing phases. Supplementation of β-glucanase may be applied at the mashing phase.	Rapid reaction, stable reagents, only enzymatic kit available; RACI Standard Method
	β-Glucanase Tablets (T-BGZ)	A high level of β-glucan is associated with undesirable high viscosity worts.	Novel substrate. Rapid reaction, stable reagent; RACI Standard Method
D-Glucose	GOPOD Format (K-GLUC)	A major fermentable sugar in wort, also present as maltose & limit dextrins & is essential in supporting growth of yeast during fermentation.	Rapid reaction, stable reagents
	D-Glucose HK Kit (K-GLUHK)		
Limit-Dextrinase/ Pullulanase	(Limit-Dextrinase Tablets) (T-LDZ)	A key enzyme in hydrolysis of α-1,6 glucosyl linkages in starch & branched malto-dextrins.	Novel substrate. Rapid reaction, stable reagent; RACI Standard Method
	Pullulanase/Limit-Dextrinase Kit (K-PullG6)	Used as a supplement for production of high fermentable worts.	Novel assay employing a defined oligosaccharide substrate. High sensitivity & specificity. Stable reagents
Primary Amino Nitrogen (PAN/FAN)	Primary Amino Nitrogen Kit (K-PANOPA)	A key indicator of malt & wort quality. Free amino acids & short polypeptides are the major source of free amino nitrogen (FAN) in worts. FAN is essential in supporting growth of yeast during fermentation.	Novel procedure. Rapid reaction, stable reagents
Total Starch	Total Starch Kit (AA/AMG) (K-TSTA)	Starch is the major storage carbohydrate source in cereal grains. Gelatinisation & enzymatic hydrolysis of starch is essential for releasing fermentable sugars & occurs during the mashing phase of wort production.	Rapid assay formats with options of measuring D-glucose with GOPOD reagent or with hexokinase/G-6-PDH. Stable reagents. AOAC Method 996.11; AACC Method 76-13.01; ICC Method No. 168; RACI Standard Method
	Total Starch HK Kit (K-TSHK)		
endo-β-Xylanase	Xylazyme AX Tablets (T-XAX)	A key enzyme in hydrolysis of malt xylans.	Novel substrate. Rapid reaction, stable reagent

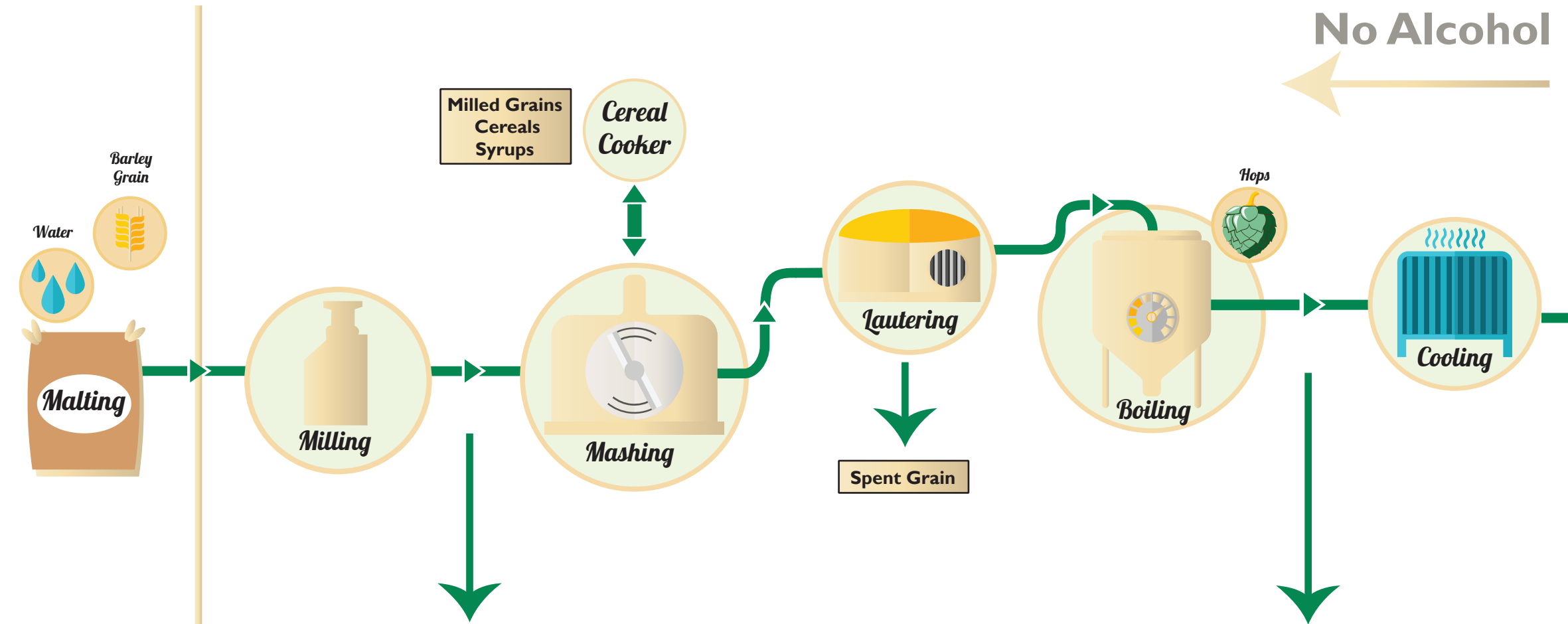
Farm



BREW HOUSE

Analyte	Cat Code
Alpha-Amylase	K-CERA / K-AMYLSD / K-MALTA / P-BLDX
Beta-Amylase	K-BETA3 / K-MALTA
Beta-Glucanase	E-MBGL / T-BGZ
Beta-Glucan	K-BGLU
Fructose/Glucose	K-FRUGL / K-GLUC / K-GLUHK
Limit Dextrinase	K-PullG6 / T-LDZ
Maltose	K-MASUG
Total Starch	K-TSTA / K-TSHK
Beta-Xylanase	T-XAX (Xylazyme AX tablets)

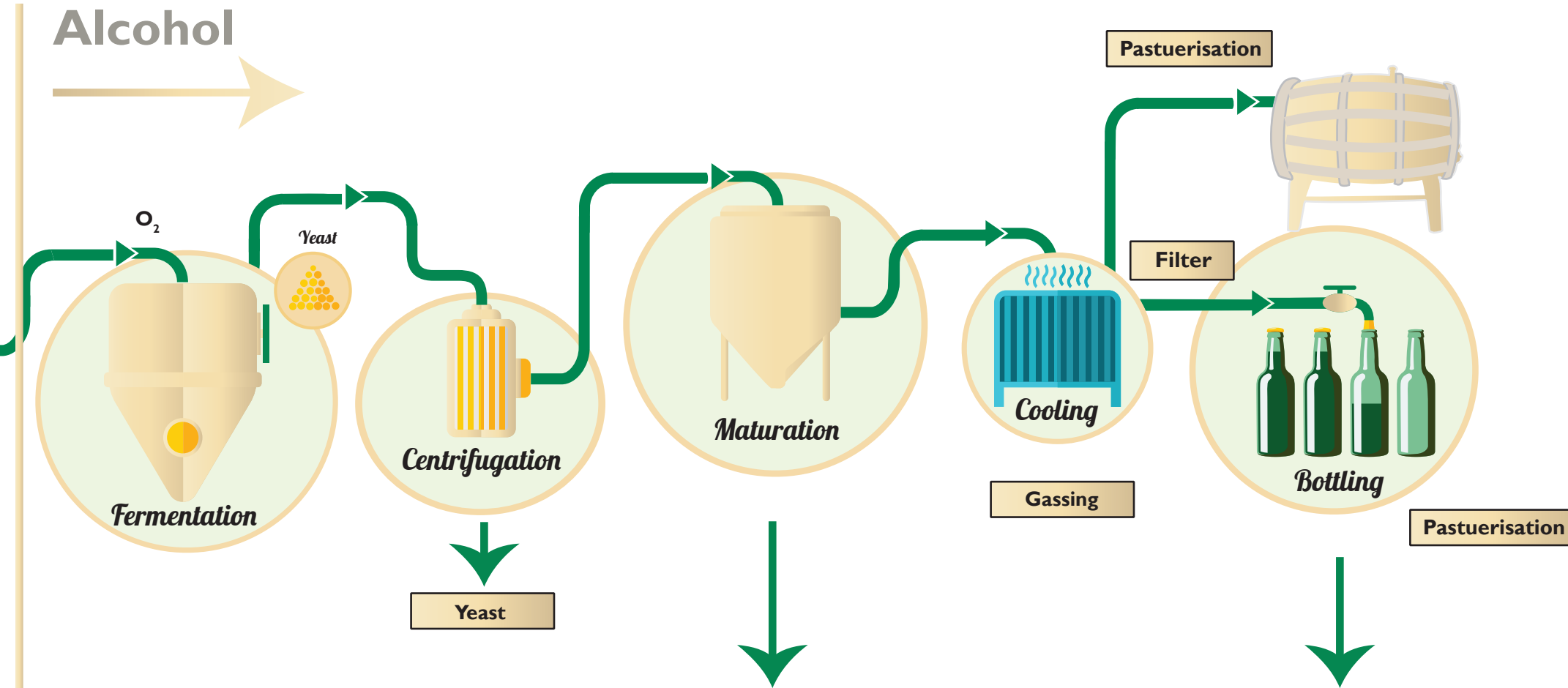
Brew House



FERMENTATION

Analyte	Cat Code
Alpha-Amylase	K-CERA / K-AMYLSD / K-MALTA / P-BLDX
Beta-Amylase	K-BETA3 / K-MALTA
Limit Dextrinase	K-PullG6 / T-LDZ
Fructose/Glucose	K-FRUGL
Nitrogen	K-PANOPA / K-LARGE / K-AMIAI / K-URAMR
Starch	K-TSTA

Fermentation & Blend



MATURATION

Analyte	Cat Code
Beta-Glucanase	E-MBGL / T-BGZ
Ethanol	K-ETOH
Glucose	K-GLUC / K-GLUHK

PACKAGING

Analyte	Cat Code
Acetaldehyde	K-ACHYD
Glucose	K-GLUC / K-GLUHK
Sulphite	K-TSULPH / K-SULPH / K-ETSULPH

Megazyme Tests...