



# Measurement of Ethanol in Kombucha

Analytical solutions for low-alcohol beverages



Kombucha may be sold as an alcoholic or non-alcoholic beverage. All producers are required to record the alcohol present in kombucha throughout production, including any fermentation that continues after bottling.

## Analytical Solutions from Megazyme

Megazyme is known worldwide for user-friendly assay kits employing high-quality reagents and ultra-pure enzymes.

Our established **Ethanol Assay Kit (K-ETOH)** is already widely used in the brewing industry.

The new **Ethanol (Liquid Ready) Assay Kit (K-ETOHLQR)** accords with AOAC Method 2017.07 and uses liquid reagents for maximum convenience.

This kit is based on a simplified reaction that results in less interference from environmental ethanol often present in the laboratory. Analyst error is also reduced due to lower sample dilution.

## How our Ethanol Assay Kits work

Both assay kits are based on a reaction in which formation of NADH is stoichiometric with the quantity of ethanol. NADH is then measured by the increase in absorbance at 340 nm.

Discover the full range at [www.megazyme.com](http://www.megazyme.com)

## Alcohol labelling in major markets

Country	"Non-alcoholic" ABV must be below	ABV must be stated above
Canada	0.5% ABV	1.2% ABV
EU	0.5% ABV	1.2% ABV
Finland	2.8% ABV	2.8% ABV
Norway	0.7% ABV	0.7% ABV
Sweden	0.5% ABV	1.2% ABV
USA	0.5% ABV	0.5% ABV

Source: IARD.org, March 2018





# Quality Control in Kombucha

## Measurement of alcohol, sugars, acids and more

Megazyme's assay kits allow manufacturers to conveniently measure the sugars, acids and other analytes that influence flavour and quality. This empowers producers to make process decisions that will minimise the variation from batch to batch.

Our series of kits for organic acids includes those tested less frequently in kombucha e.g. citric acid, pyruvic acid, succinic acid, tartaric acid.

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Product Code	Measurement of Ethanol	Assays per Kit		
		Manual	Microplate	Analyser
K-ETOH	Ethanol Assay Kit	60	600	600
K-ETOHLQR	Ethanol Assay Kit (Liquid Ready Reagents)	60	600	600

Product Code	Measurement of Fermentable Sugars	Assays per Kit		
		Manual	Microplate	Analyser
K-GLUC	D-Glucose Assay Kit (GOPOD Format)	660		
K-GLUHK	D-Glucose HK Assay Kit	110	1100	1000
		220	2200	2000
K-FRUGL	D-Fructose/D-Glucose Assay Kit	110	1100	1100
K-FRGLQR	D-Fructose/D-Glucose Assay Kit (Liquid Ready Reagents)		1100	1100

Product Code	Measurement of Yeast-Assimilable Nitrogen (YAN) Components	Assays per Kit		
		Manual	Microplate	Analyser
K-PANOPA	Primary Amino Nitrogen (PANOPA) Assay Kit	100	1000	1100
K-AMIAR	Ammonia Assay Kit	96	960	960

Product Code	Measurement of Organic Acids	Assays per Kit		
		Manual	Microplate	Analyser
K-GATE	D-Gluconic Acid/D-Glucono- $\delta$ -lactone Assay Kit	60	600	600
K-URONIC	D-Glucuronic/D-Galacturonic Acid Assay Kit	100	1000	1000
K-DLATE	D-/L-Lactic Acid Assay Kit (Rapid)	100		
K-LMAL	L-Malic Acid Assay Kit (Manual Format)	58	580	
		116	1160	
K-LMALQR	L-Malic Acid Assay Kit (Liquid Ready Reagents)		1100	1100