

## ETHANOL (EtOH)

### MANUAL WINE ONLY

**FOR FULL PRODUCT DETAILS, PLEASE REFER TO THE KIT INSERT.**

### INTENDED USE

For the quantitative analysis of ethanol in wine. This product is suitable for Manual use.

### Cat. No.

DA 4015	R1. Ethanol Buffer	2 x 16.9 ml
2 x 16 t	R2. Ethanol Enzyme Reagent	2 x 8 ml

### SAMPLE COLLECTION AND STORAGE

Wine. Dilute samples 1 + 49 with distilled water prior to assay.

### STABILITY AND PREPARATION OF REAGENTS

#### R1. Ethanol Buffer

Supplied ready for use. Stable up to the expiry date when stored at +2 to +8°C.

#### R2. Ethanol Enzyme Reagent

Supplied ready for use. Stable up to the expiry date when stored at +2 to +8°C.

**Avoid prolonged exposure of the reagent at temperatures higher than 25°C.**

### MATERIALS PROVIDED

Ethanol Buffer  
Ethanol Enzyme Reagent

### MATERIALS REQUIRED BUT NOT PROVIDED

Randox Ethanol Calibrator/Control Set (Cat. No. DA 2703)

### PROCEDURE

Wavelength:	340/365/334nm
Cuvette:	1 cm path length
Temperature:	25°C
Measurement:	against the reagent blank

Pipette into test tubes:

	Reagent Blank	Standard	Samples
R1	1000 µl	1000 µl	1000 µl
Sample	-	50 µl	50 µl

Mix well and leave for 5 min. Then add: -

R2	400 µl	400 µl	400 µl
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Mix well and cover tubes, read absorbance of each solution after 40sec at 340nm and return to 25°C for 1 min, then read the absorbance of each solution again.

### CALCULATION

$$\text{Ethanol Concentration} = \frac{\Delta A_{\text{sample}}}{\Delta A_{\text{standard}}} \times \text{Standard Concentration}$$

### QUALITY CONTROL

Randox Ethanol Calibrator/Control Set is recommended for daily quality control. Two levels of controls should be assayed at least once a day. Values obtained should fall within a specified range. If these values fall outside the range and repetition excludes error, the following steps should be taken:

1. Check instrument settings and light source.
2. Check cleanliness of all equipment in use.
3. Check water, contaminants i.e. bacterial growth may contribute to inaccurate results.
4. Check reaction temperature.
5. Check expiry date of kit and contents.
6. Contact Randox Laboratories Customer Technical Support, Northern Ireland (028) 94422413.

### ASSAY RANGE

The range of this assay is 6.00-500mg/dl.