

ACETIC ACID

UV Method
RX ALTONA

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

INTENDED USE

For the quantitative determination of Acetic Acid in wine. This product is suitable for use on the RX **altona** analyser.

Cat. No.

AT 7304	R1a.	Buffer	1 x 103 ml
	R1b.	Substrate	5 x 20 ml
	R1c.	Enzyme Reagent 1	1 x 1.1 ml
	R2a.	Enzyme Reagent 2	4 x 10 ml
	R2b.	Diluent	1 x 50 ml
	CAL	Acetic Acid Standard	1 x 10 ml

STABILITY AND PREPARATION OF REAGENTS

R1. Buffer / Substrate / Enzyme Reagent 1

Reconstitute 1 vial of Substrate R1b with **20 ml** of Buffer R1a. Stable for 2 weeks at +2 to +8°C. Before use add **200 µl** of Enzyme Reagent 1 (R1c). Stable for 1 day at +2 to +8°C.

R2. Enzyme Reagent 2

Reconstitute 1 vial of Enzyme Reagent 2 (R2a) with **10 ml** of diluent (R2b). Stable for 5 days at +2 to +8°C.

CAL. Acetic Acid Standard

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

MATERIALS PROVIDED

Buffer / Substrate / Enzyme Reagent 1
Enzyme Reagent 2 / Diluent
Acetic Acid Standard

MATERIALS REQUIRED BUT NOT PROVIDED

0.9% NaCl Solution

PROCEDURE

Select Acetic Acid in the Test Screen. Then select Run Calibration or Run Sample and carry out a water blank as instructed.

Pipette into a cuvette:

	Reagent Blank	STD1	Standard	STD2-STD5	Sample
DDH ₂ O	8 µl	-	-	-	-
Standard	-	-	8 µl	-	-
Sample	-	-	-	-	8 µl
Reagent 1	600 µl	600 µl	600 µl	600 µl	600 µl

Mix, incubate for 3 minutes at +25°C.

Insert the cuvette in the RX **altona** flowcell folder when prompted for Sample Blank and press Read.

Reagent 2	200 µl	200 µl	200 µl

Mix, incubate for 10 minutes at +25°C.

Insert the cuvette in the RX **altona** flowcell folder when prompted for Sample and press Read.

CALIBRATION

A standard series should be prepared by diluting the standard as detailed on the lot specific value sheet.

SPECIFIC PERFORMANCE CHARACTERISTICS

The following performance data were obtained using a RX **altona** analyser.

LINEARITY

The method is linear up to the concentration of the standard supplied with kit.

SENSITIVITY

The minimum detectable concentration of Acetic Acid with an acceptable level of precision was determined as 0.117 g/l.

PRECISION

Within run precision

	Level 1	Level 2	Level 3
Mean (g/l)	0.315	0.540	0.899
SD	0.013	0.016	0.024
CV(%)	4.07	2.95	2.72
n	20	20	20

Between run precision

	Level 1	Level 2	Level 3
Mean (g/l)	0.329	0.557	0.910
SD	0.022	0.015	0.039
CV(%)	6.71	2.62	4.33
n	20	20	20

10 Aug 16 bm