

food

analysis



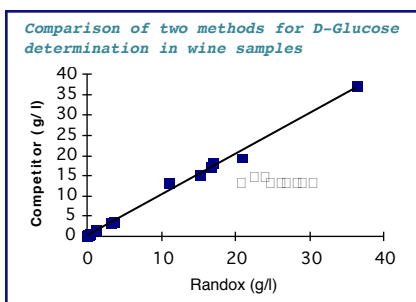
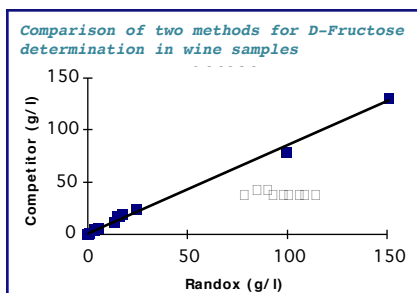
Applications

Infant food
Beverages
Dairy products
Meats
Sugar refineries
Animal feed
Cosmetics
Pharmaceuticals
Tobacco

RANDOX

D-Glucose/ D-Fructose

Glucose is the most abundant monosaccharide occurring in animal tissue and blood and is found together with fructose in honey, sweet fruits and vegetables. Sucrose (table sugar) is made up of one molecule of fructose and one of glucose. Fructose is also used as a replacement sugar for diabetic patients and is an important raw material for the production of many pharmaceuticals. Fructose is sweeter than glucose and is used in the production of many diet foods. Glucose and fructose have a variety of applications in the pharmaceutical and food industries including the following areas: bread, chocolate, ice-cream, confectionary, fruit juices and soft drinks. Randox Laboratories have produced a combined kit for the rapid measurement of both sugars.

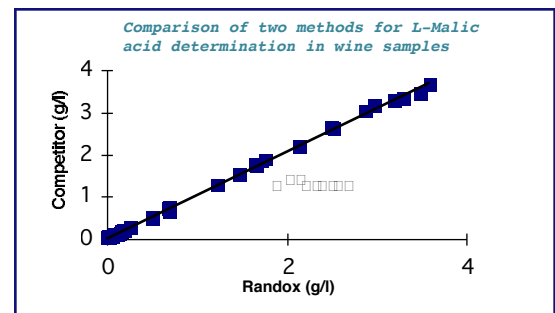


Features

- Two in one: a dual kit which enables the determination of both glucose and fructose
- Extended linearity of 4 g/l
- Excellent sensitivity to 0.05 g/l
- Two measuring ranges: 0.6 - 4 g/l and 0.05 - 0.6 g/l
- Good precision: c.v. 3% at 3.0 g/l (n=12)
- Rapid analysis time
- Stable to expiry
- Standard supplied with all kits
- Suitable for manual use or for automation on a range of analysers

L-Malic acid

Malic acid is one of the major organic acids found in grapes and is monitored in the wine industry to determine the ripeness and variety of grapes. It has important applications for a diverse range of products including beer, fruit juice, dairy products, soft drinks, cosmetics and pharmaceuticals.



Features

- Extended linearity of 1.0 g/l
- Excellent sensitivity to 0.01 g/l
- Good Precision: cv 15% at <0.03 g/l (n=15)
- Rapid analysis time
- 3 weeks reagent stability @ +2 - +8°C
- Easy to use reagents, including aqueous start reagent
- Standard supplied with all kits
- Suitable for manual use or for automation on a range of analysers

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Process control during production is an important consideration for the food and beverage industry. This ensures cost effective production of high quality products, within current legislative regulations. Randox Laboratories have introduced a versatile range of kits for analysis of food and beverage products. These enable rapid and frequent monitoring of production processes and quality control of raw materials and finished products.

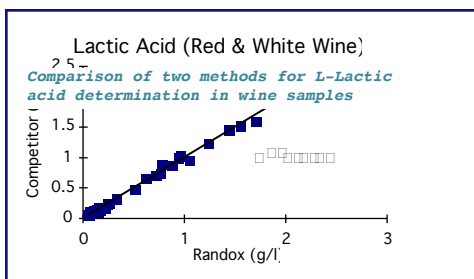
Beverage products can be analysed directly without pretreatment, however foodstuffs may require some pretreatment such as decolourising, filtration, removal of carbonic acid, and homogenisation.

Features of Randox kits

- Few components for ease of use and rapid handling
- Extended linearity for minimal sample dilution
- Extended stability ensures less wastage
- Applications for most automated analysers

L-Lactic acid

Lactic acid is a weak acid produced during the secondary fermentation of malic acid. Lactic acid is added as a preservative to many pharmaceutical and food products and has applications for a diverse range of products including baby food, beer, dairy products, meats, sugar production, animal feed, cosmetics and tobacco.

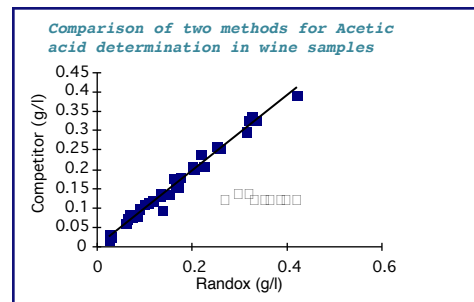


Features

- Extended linearity of up to 0.4 g/l
- Excellent sensitivity down to 0.01 g/l
- Good precision - c.v. 4.1% at a concentration <0.06 g/l (n=12)
- Rapid analysis time
- Reagents with an extended stability of up to 3 weeks @ +2 - +8°C
- Easy to use liquid reagents
- Standard supplied with all kits
- Suitable for manual use or for automation on a range of analysers

Acetic acid

Acetic acid is the most common of the volatile acids and is found in most foodstuffs. It is a sour-tasting acid and is the main constituent of vinegar. Acetic acid is the simplest member of the family of organic acids which are a constituent of natural fats in plants and animals. It is present in low concentrations in food and beverages and is involved in the metabolic processes during the ripening of fruit.



Features

- Linearity of 0.3 g/l
- Sensitivity to 0.005 g/l
- Precision

	Red wine	White wine
c.v.(%)	2.2%	1.7%
	at 0.269 g/l	at 0.343 g/l
- 7 day stability @ +2 - +8°C
- Easy to use reagents
- Standard supplied with all kits
- Suitable for manual use or for automation on a range of analysers

TAS

Recent studies have shown that the consumption of antioxidants may reduce the incidence of certain life threatening diseases such as cancer and heart disease. Antioxidants occur naturally in many food products and also contribute to the quality characteristics such as colour, flavour and stability. The Randox TAS kit offers a valuable tool for the rapid determination of product quality and also gives an overall estimation of the antioxidant protection and the potential health benefits afforded by the sample. TAS measurements correlate closely with phenolic assessment used for the quality control of many beverage products.



Features

- First commercially available kit
- Wide measuring range (0-2.5 mmol/l)
- Rapid analysis - less than 5 minutes
- Excellent precision:

Intra-assay c.v = 1.2% (mid range mean 1.37 mmol/l; n=20)

Inter-assay c.v = 2.4% (mid range mean 1.35 mmol/l; n=18)

- Small sample size (5 µl)
- Standard supplied with all kits
- Suitable for manual use or for automation on a range of analysers



RANDOX

International Headquarters

Randox Laboratories Ltd., 55 Diamond Road, Crumlin, Co. Antrim, United Kingdom, BT29 4QY
Tel: +44 (0) 28 9442 2413, Fax: +44 (0) 28 9445 2912, E-Mail Address: marketing@randox.com
www.randox.com

Randox have sales and distribution agreements in 130 countries. Australia, Brazil, Canada, China, Czech Republic, France, Germany, Hungary, India, Iran, Italy, Kyrgyzstan, Netherlands, Poland, Portugal, Puerto Rico, Russia, Slovakia, South Africa, Spain and USA are directly represented by Randox Companies

Australia

Randox (Australia) Pty Ltd.
Suite 3, 65 Nicholson Street,
St Leonards 2065, Sydney, Australia.
Tel: +61 29437 4800
Fax: +61 29437 4822

Brasil

Randox Brasil Ltda
Avenida Ibirapuera, 2120 - 19º andar - cj 191.
CEP: 04028-001 - Moema - São Paulo - Brasil
Tel: +55 11 5051-3035
Fax: +55 11 5052-3952

Canada

Randox Laboratories Canada Ltd.
1021 Meyerside Drive, Unit 5, Mississauga,
Ontario, Canada, L5T 1J6.
Tel: +1 905 564 9372
Fax: +1 905 564 8979

Česko

Randox S.R.O.
BHM, Sovadinoва 7,
69002 Breclav 2, Czech Republic.
Tel/Fax: +420 (0) 627 325 278

China

Randox Diagnostics (Kunshan) Co. Ltd.,
Floor 4, West Side, No. 327 Tongfeng Road,
Eco & Tec. Dev. Zone, Kunshan, Jiangsu, P.R.C.
Tel: +86 512 573 61956
Fax: +86 512 573 61960

Deutschland

Randox Laboratories GmbH
Kimplerstraße 288,
47807 Krefeld, Deutschland.
Tel: +49 (0) 2151 93 706 0
Fax: +49 (0) 2151 93 706 222

España

Laboratorios Randox S.L.
Comte Borrell 111-113,
1-5 08015 Barcelona.
Tel: +34 93 292 49 98
Fax: +34 93 292 49 99

France

Laboratoires Randox,
BP 82, 1115, rue Hélène Boucher, Montpellier
Fréjorgues, 34131 Mauguio Cedex, France
Tel: +33 (0) 4 99 13 67 40
Fax: +33 (0) 4 99 13 67 41

India

Randox Laboratories Ltd.
Madhur Business Centre, 3rd Floor,
554 G. M. Bhosale Marg, Near Mahindra
Towers, Worli, Mumbai-400 018.
Tel: +91 22 5662 6813 / 4
Fax: +91 22 5662 6815

Italia

Randox Laboratories Ltd.
Via Casale Ferranti,
35/C 00173 Roma RM, Italia.
Tel: +39 06 721 53 72
Fax: +39 06 721 53 76

Kyrgyzstan

Randox Laboratories
5 Microrayon, Building 57, Apartment 53,
Bishkek, Kyrgyzstan, Central Asia.
Tel: +996 312 582 678
Fax: +996 312 478 059

Magyarország

Randox Laboratories Ltd.
Magyarországi Kereskedelmi Képviselői
H-1029 Budapest, Honfoglalás u. 40. C8,
Hungary.
Tel/Fax: +36 1 275 7964

Polska

Randox Laboratories,
ul. □ □ □ □ □ □ □ □ □ □ 01-018, Warszawa.
Tel: +48 (0) 22 862 1080
Fax: +48 (0) 22 862 1081

Portugal

Irandox Laboratorios Quimica Analitica Ltda
Rua Agostinho de Jesus e Sousa 258,
4000 Porto, Portugal.
Tel: +351 22 589 8320
Fax: +351 22 589 8329

Puerto Rico

Randox de Puerto Rico
PMB 590 PO Box 29029 San Juan,
PR 00929-0029.
Tel: +1 787 701 7000
Fax: +1 787 701 6901

Slovensko

Randox S.R.O.
Ivanska Cesta 15, 82104 Bratislava, Slovakia.
Tel/Fax: +421 2 4341 0832
Tel: +421 2 4341 0833

South Africa

Randox Laboratories SA (Pty) Ltd.
Unit 6 Progress Park, Richards Drive,
Midrand, South Africa.
Tel: +27 (011) 3159656
Fax: +27 (011) 3159657

USA

Randox Laboratories
4065 Oceanside Blvd., Suite Q,
Oceanside, CA 92056.
Tel: +1 760-639-1500,
Toll Free: 866 4 RANDOX
Fax: +1 760-639-1509,
Toll Free: 866 RANDOX 1