

# Paragon Scientific Ltd

## STANDARD RIFRATTOMETRICI CERTIFICATI DI SACCAROSIO



Paragon Scientific Ltd produce una gamma di standard primari certificati di saccarosio ad elevata accuratezza per la taratura di tutti i tipi di rifrattometri portatili, di Abbe e digitali.

Questi standard sono certificati UKAS in accordo alle normative ISO/IEC 17025.

La stabilità di questi standard, senza conservanti, è garantita per 6 settimane dalla data di produzione.

Codice	Valore certificato % Brix $\pm 0,02\%$ a 20 °C	Indice di rifrazione nD	Confezione	Codice	Kit n°	Confezione (1 x 15 ml per valore)
45000013	0,00	1,33299	1 x 15 ml	45000203	Kit 1	0,00% + 5,00%
45000023	5,00	1,34026	1 x 15 ml	45000213	Kit 2	0,00% + 10,00%
45000033	10,00	1,34782	1 x 15 ml	45000223	Kit 3	0,00% + 15,00%
45000043	15,00	1,35568	1 x 15 ml	45000233	Kit 4	0,00% + 20,00%
45000053	20,00	1,36384	1 x 15 ml	45000243	Kit 5	0,00% + 25,00%
45000063	25,00	1,37233	1 x 15 ml	45000253	Kit 6	0,00% + 30,00%
45000073	30,00	1,38115	1 x 15 ml	45000263	Kit 7	0,00% + 35,00%
45000083	35,00	1,39032	1 x 15 ml	45000273	Kit 8	0,00% + 40,00%
45000093	40,00	1,39986	1 x 15 ml	45000283	Kit 9	0,00% + 50,00%
45000103	50,00	1,42009	1 x 15 ml	45000293	Kit 10	0,00% + 60,00%
45000113	60,00	1,44193	1 x 15 ml	45000303	Kit 35*	0,00% + 5,00% + 10,00% 25,00% + 35,00%
				45000313	Kit 60*	0,00% + 15,00% + 40,00% 50,00% + 60,00%

La Giorgio Bormac è in grado di pianificare forniture mensili.


\* n° 2 flaconi da 0,00%

 <b>European co-operation for Accreditation</b>	
 <b>UNITED KINGDOM</b> British Calibration Service (2003) 1568	 <b>BELGIUM</b> Service de la Mesure 2003
 <b>IRELAND</b> Irish Calibration Accreditation Board (SIAM) 1568	 <b>SWITZERLAND</b> Swiss Calibration Service (SAS) 1568
 <b>ITALY</b> Servizio di Taratura e Scale (SIT) 1568	 <b>FEDERAL REPUBLIC OF GERMANY</b> Technische Dienstleistung (TDL) 1568
 <b>NETHERLANDS</b> Nederlandse Calibration Service (NCS) 1568	 <b>DENMARK</b> The National of Denmark
 <b>NORWAY</b> Norwegian Calibration Service (NCS) 1568	 <b>SPAIN</b> Servicio de Calibración (SIC) 1568
 <b>PORTUGAL</b> Calibrações Instituídas por Quilómetros (CIQ)	 <b>FINLAND</b> Finnish Weigh Services (FWS) 1568
 <b>SWEDEN</b> Swedish Weights Department (SWE) 1568	 <b>FRANCE</b> Service de la d'Etalonnage
 <b>AUSTRIA</b> Österreichischer Kalibrierdienst (ÖKD) 1568	

## CERTIFICATE OF CALIBRATION

ISSUED BY PARAGON SCIENTIFIC LIMITED


Date of issue 8-Oct-02      Certificate Number 37544



**Paragon Scientific Ltd**

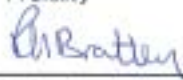
UKAS-accredited calibration laboratory no. 8649 accredited to ISO/IEC 17025

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 Approved Signatory  
 P. Bratley

Name \_\_\_\_\_  
 Signature 

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Product Identity:      SS30      Date of manufacture:      7-Oct-02  
 Batch Number:      37536\_18830      Expiry date:      18-Nov-02

**% Sucrose ( C<sub>12</sub>H<sub>22</sub>O<sub>11</sub> ) in water wt/wt :    30.00 ( + / - 0.02% )**

**( 30 % Brix @ 20 °C )**

**Refractive Index:    1.38115 ( + / - 0.00004 )**

**Traceability data**  
**Preparation method**  
 This standard was prepared wt/wt (Brix) sucrose / water on a high accuracy calibrated analytical balance. The concentration was verified using a primary high accuracy, calibrated Refractometer.

**Balance**  
 Balance Calibration date: 26-Mar-02

The Analytical grade reagents used in the manufacture of this high accuracy standard are defined as:  
 Analytical Grade Sugar ( C<sub>12</sub>H<sub>22</sub>O<sub>11</sub> )      Analytical Grade Water ( H<sub>2</sub>O )

Sucrose batch no:      0107303      Water batch no:      0258380  
 Sucrose expiry date:      17-Aug-06      Water expiry date:      31-Dec-02

**Uncertainties**  
**Uncertainties for the production of this refractive index standard are:**  
 Combined Standard Uncertainty:      0.008%  
 Expanded Uncertainty:      0.016%  
 The reported expanded uncertainty is based on a combined standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%.  
 The evaluation has been carried out in accordance with UKAS requirements.

**Testing equipment (verification)**  
 Refractometer Serial No:      AB2323  
 The uncertainty of temperature measurement for the verification equipment used in this analytical procedure does not exceed +/- 0.1 °C

**Recommendations for use**  
 The standard must be shaken thoroughly to ensure homogenous mix of the solution. If the solution is in a dropper bottle, remove the seal, invert the bottle and discharge a few drops of solution to waste to clear the nozzle. Apply to the refractometer prism surface in accordance with the manufacturer's instructions. After application, immediately replace the cap to prevent evaporation or contamination.  
 Standards should be kept refrigerated at 2 to 5 °C – do not freeze.

**Health and safety**  
 This standard is composed solely of sucrose and water without any additives. In the quantity supplied it represents no hazard to health in respect of skin contact or ingestion. If the eyes are affected, flush with clean water.      (Health and Safety is not covered by our UKAS accreditation)

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 UKAS is one of the signatories to the Multilateral Agreement of European co-operation for Accreditation (EA) for the mutual recognition of calibration certificates issued by accredited laboratories



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DISTRIBUITO da:

