

Refractive Index Standards



Summary of Features & Benefits:


Commercial Benefits

- Both sucrose and solvent based standards available
- Most extensive range in the marketplace
- Customised pack options available
- Shelf life of 1 - 2 years
- Can be used with any brand of refractometer
- Extensive range (1.33299-1.65808 n_D)
- Presented in a convenient high quality dropper bottle
- Available as single bottles or a handy set of 6 bottles
- Ready to Use


Technical Benefits

- Test results accredited to ISO/IEC 17025 for values in the range of 1.33310 to 1.65812 (INAB Ref:264T)
- Uncertainty of measurement up to 0.00014 n_D units
- Consistency of product-Independent, Traceable, Certified
- Certificates of Analysis and Safety Data Sheets available online

Product No.'s RIBS07S to RIBS60S have identical components and shelf life (1 Year) to the stabilised Brix Standards already described in the previous section. However, the certified values are expressed in Refractive Index (R.I) units n_D . All these products are prepared gravimetrically on a weight/weight basis. Both solute (sucrose) and solvent (water) are weighed on a balance calibrated by Reagecon engineers using OIML traceable weights. Reagecon holds ISO 17025 accreditation for calibration of laboratory balances (INAB Ref:265C). The resulting Balance Certificate of Calibration is issued in accordance with the requirements of ISO/IEC 17025. The R.I. of the standard is verified using a high performance calibrated, temperature controlled refractometer. The control of this instrument is completed using high purity ISO Guide 34 accredited Brix standards similar in Brix value to the products listed.



ISO 17025
NAB
TESTING
ACCREDITED IN SCHEM 001/01/2017



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CERTIFICATE OF ANALYSIS

PRODUCT: Refractive Index Stabilised Standard @ 20°C - 1.35015nD

PRODUCT NO: RIBS115S

LOT NO: RIBS11516D1

DATE OF TEST: 04th April 2016

EXPIRY DATE: 28th April 2017

SPECIFICATION: 1.34984 - 1.35046nD @ 20°C

MEAN: 1.35044nD @ 20°C

TEST METHOD:

The result reported above was determined by analysis of a sample of this lot taken at time of manufacture. The Refractive Index value of the standard was determined using a high performance calibrated, temperature controlled refractometer according to TPRIA 01.

This test method provides traceability to high purity ISO Guide 34 Certified Reference Materials.

This certificate relates solely to the lot number given above. The uncertainty of measurement has been calculated not to exceed $\pm 0.00014nD$ (0.01%) @ 20°C at 95% confidence level, i.e. coverage factor k=2.

ACCREDITATION:

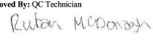
Reagecon Diagnostics Ltd. is accredited by the Irish National Accreditation Board, under scope 264T, for the test method, TPRIA 01, used to generate the above result. This accreditation is intended only to certify that Reagecon has the Quality Management Systems in place to ensure that each individual test result generated using TPRIA 01 is technically valid and is supported by appropriate uncertainty measurements.

Page 1 of 2

INSTRUCTIONS FOR USE:

- Prior to use, the contents of the dropper bottle should be brought to room temperature and mixed thoroughly by inversion to ensure a homogeneous mix.
- Remove cap and discharge 4-5 droplets of liquid to waste to clear the nozzle.
- Replace cap immediately after use.
- Product must be stored at 2-8°C when not in use.
- DO NOT FREEZE.

This Product is Stabilised by the addition of 0.01% of preservative.

Approved By: QC Technician


Date: 04th April 2016

This certificate must not be reproduced except in full

Page 2 of 2

Refractive Index Standards - Stabilised Sucrose - 1 Year Shelf Life

Description (20°C)	Nominal Refractive Index @ 20°C*	Product No. 15ml	Product No. 6x15ml
Refractive Index @ 20°C	1.33299	RIBS00S	RIBS00S6
Refractive Index @ 20°C	1.34026	RIBS05S	RIBS05S6
Refractive Index @ 20°C	1.34325	RIBS07S	RIBS07S6
Refractive Index @ 20°C	1.34782	RIBS10S	RIBS10S6
Refractive Index @ 20°C	1.34968	RIBS112S	RIBS112S6
Refractive Index @ 20°C	1.35015	RIBS115S	RIBS115S6
Refractive Index @ 20°C	1.35093	RIBS12S	RIBS12S6
Refractive Index @ 20°C	1.35171	RIBS125S	RIBS125S6
Refractive Index @ 20°C	1.35568	RIBS15S	RIBS15S6
Refractive Index @ 20°C	1.36384	RIBS20S	RIBS20S6
Refractive Index @ 20°C	1.37233	RIBS25S	RIBS25S6
Refractive Index @ 20°C	1.38115	RIBS30S	RIBS30S6
Refractive Index @ 20°C	1.39032	RIBS35S	RIBS35S6
Refractive Index @ 20°C	1.39986	RIBS40S	RIBS40S6
Refractive Index @ 20°C	1.40978	RIBS45S	RIBS45S6
Refractive Index @ 20°C	1.42009	RIBS50S	RIBS50S6
Refractive Index @ 20°C	1.4308	RIBS55S	RIBS55S6
Refractive Index @ 20°C	1.44193	RIBS60S	RIBS60S6
Refractive Index @ 20°C	1.46546	RIBS70S	RIBS70S6

* The nominal Refractive Index value is taken from the ICUMSA published tables

Solvent Based Refractive Index Standards - 2 Year Shelf Life

Description (20°C)	Nominal Refractive Index @ 20°C*	Product No. 15ml	Product No. 6x15ml
Refractive Index @ 20°C	1.38779	RI0138	RI01386
Refractive Index @ 20°C	1.40485	RI0140	RI01406
Refractive Index @ 20°C	1.42345	RI0142	RI01426
Refractive Index @ 20°C	1.44468	RI0144	RI01446
Refractive Index @ 20°C	1.46768	RI0146	RI01466
Refractive Index @ 20°C	1.49672	RI0149	RI01496
Refractive Index @ 20°C	1.50044	RI0150	RI01506
Refractive Index @ 20°C	1.51726	RI0151	RI01516
Refractive Index @ 20°C	1.5366	RI0154	RI01546
Refractive Index @ 20°C	1.65808	RI0165	RI01656

* The nominal Refractive Index value is taken from the ICUMSA published tables