

MANTENCIÓN PREVENTIVA IF 0369-5
Refractómetro
DATOS DEL CLIENTE

 Documento: GT-0369 Fecha: 16/03/2018

 Empresa: PROMAIZ

 Sección: Laboratorio Central

 Atención Sr(a).: Anthony Greig
IDENTIFICACION DE EQUIPO

 Marca: Bellingham + Stanley

 Modelo: RFM 340+

 Número de Serie: B014018

 Sección: Laboratorio Central
ESTADO INICIAL DEL EQUIPO

-Equipo trabajando normalmente

TRABAJO REALIZADO

Se realiza servicio de mantención preventiva a equipo, incluyendo calibración de ND (index Refractive) , según patrones adjuntos.

	Control	
	Si	No
1 Inspección visual	X	
2 Control de funcionamiento	X	
3 Desarme parcial del equipo	X	
4 Control de unidad porta muestra	X	
5 Control de tapa / lectura	X	
6 Control de unidad de refracción	X	
7 Control de placas de temperatura	X	
8 Control de unidad de ventilación	X	
9 Control electrónico de componentes	X	
10 Control de unidad óptica	X	
11 Instalación de filtros laterales	X	
12 Limpieza interna	X	
13 Armado del equipo	X	
14 Calibración de refracción STD Brix 73,1 %	X	
15 Equipo operativo	X	



Soluciones Tecnológicas Avanzadas Limitada.

Román Díaz 462 – Providencia – Santiago-Chile

Fono: +56-2-22359928

servicio@stalab.cl

www.stalab.cl

CONTROL DE INDICE DE REFRACCIÓN

Control de Índice de Refracción Certificado (Lot N°20170801)

Medición del STD Brix	Medición del instrumento
73,1 % (20°C)	73,17%

Valor permitido +/- 0,2 % del STD

OBSERVACIONES:

Este programa solo debe ser realizado por personal técnico calificado y autorizado.

Realizar mantención anual, según instrucciones del fabricante.

CONCLUSION:

Equipo en condiciones normales de operación y con mantención al día.

Se despide atte.



Verónica Hernández.
Dpto. de Servicio Técnico StaLab.

veronica.hernandez@stalab.cl

RE-99010-E05

Scale Adjustment Standard Liquid LK Instruction Manual

Lot No.20170801

This liquid is used for verifying a Brix value and performing an inspection and standardization of ATAGO's refractometers. Please take the liquid with the plastic stick and drop it on the prism. Close the daylight plate.

- ① When calibrating the MASTER-3M, MASTER-3PM, MASTER-4M, MASTER-4PM, N-3E, N-3, H-93, N-4E, and N-4, adjust the boundary line to one of the Brix (%) according to the ambient temperature as indicated in the table on the right side by rotating the scale adjusting screw with the screw driver or a flathead screwdriver.

15°C	Brix73.8%
20°C	Brix73.1%
25°C	Brix72.3%
30°C	Brix71.6%

※ We recommend using 50% or 60% sucrose solutions which are available through ATAGO from next time.

- Sucrose Solution 50% (RE-110050)
- Sucrose Solution 60% (RE-110060)

- ② When inspecting the MASTER-3 α , MASTER-3P α , MASTER-3T, MASTER-3PT, MASTER-4 α , MASTER-4P α , MASTER-4T, MASTER-4PT, MASTER-93H, and MASTER-100H, adjust the boundary line to one of the Brix (%) according to the ambient temperature as indicated in the table on the right side.

15°C	Brix73.4% $\pm$ 0.2% ($\pm$ 0.5% at 93H,100H)
20°C	Brix73.1% $\pm$ 0.2% ($\pm$ 0.5% at 93H,100H)
25°C	Brix72.7% $\pm$ 0.2% ($\pm$ 0.5% at 93H,100H)
30°C	Brix72.4% $\pm$ 0.2% ($\pm$ 0.5% at 93H,100H)

※ In case the measured value is not within the accuracy of $\pm$ 0.2% ($\pm$ 0.5% with MASTER-93H and 100H), adjust the boundary line to the Brix (%) by rotating the scale adjusting screw with a flathead screwdriver.

※ We recommend using 60% sucrose solution which are available through ATAGO from next time.

- Sucrose Solution 60% (RE-110060)

- ③ When calibrating the MASTER-RI, N-3000E, and N-3000, adjust the boundary line to one of the Refractive Index according to the ambient temperature as indicated in the table on the right side by rotating the scale adjusting screw with the screw driver or a flathead screwdriver.

15°C	RI (Refractive Index) nD:1.4748
20°C	RI (Refractive Index) nD:1.4730
25°C	RI (Refractive Index) nD:1.4712
30°C	RI (Refractive Index) nD:1.4694

- ④ When calibrating the Honey Refractometer HHR-2N and HHR-N, adjust the boundary line to one of the Honey Moisture (%) according to the ambient temperature as indicated in the table on the right side by rotating the scale adjusting screw with the screw driver.

15°C	Honey Moisture 24.7%
20°C	Honey Moisture 25.4%
25°C	Honey Moisture 26.2%
30°C	Honey Moisture 26.9%

- ⑤ When inspecting the MASTER-HONEY, adjust the boundary line to one of the honey moisture (%) according to the ambient temperature as indicated in the table on the right side.

15°C	Honey Moisture 25.1% $\pm$ 0.2%
20°C	Honey Moisture 25.4% $\pm$ 0.2%
25°C	Honey Moisture 25.6% $\pm$ 0.2%
30°C	Honey Moisture 26.1% $\pm$ 0.2%

- ⑥ When inspecting the PAL-22S, check the measurement values against the table on the right. If the measurement value deviates more than $\pm$ 0.2%, zero-set with water and check again.

15°C	Honey Moisture 25.0% $\pm$ 0.2%
20°C	Honey Moisture 25.4% $\pm$ 0.2%
25°C	Honey Moisture 25.7% $\pm$ 0.2%
30°C	Honey Moisture 26.1% $\pm$ 0.2%

If the measurement values continue to exceed the tolerance limits, contact ATAGO.

[Warranty Period]

The warranty period is 1 year.

The "Lot No." on the label indicates the start date of the warranty period.

e.g.: 2016/1/15 (YYYY/MM/DD) → Lot No.20160115

- Put the cap back on the bottle immediately after use.
- Store at ambient temperature, away from light.
- If the amount of remaining liquid is less than approx. 3mm, volatility of the liquid may affect its refractive index (nD).
- If you purchased a calibration certificate along with the scale adjustment standard liquid, please refer to the calibration certificate for details regarding warranty period.

ATAGO CO., LTD.

Headquarters: The Front Tower Shiba Koen,
23rd Floor 2-6-3 Shiba-koen, Minato-ku,
Tokyo 105-0011, Japan
TEL: 81-3-3431-1943 overseas@atago.net
<http://www.atago.net/>

ATAGO U.S.A., Inc.

TEL: 1-425-637-2107
customerservice@atago-usa.com

ATAGO INDIA Instruments Pvt. Ltd.

TEL: 91-22-2854-4915 / 4071-3232
customerservice@atago-india.com

ATAGO THAILAND Co., Ltd.

TEL: 66-21948727-9, 86-21171549
customerservice@atago-thailand.com

ATAGO BRASIL Ltda.

TEL: 55 16 3913-8400
customerservice@atago-brasil.com

ATAGO ITALIA s.r.l.

TEL: 39 02 36557267
customerservice@atago-italia.com

ATAGO CHINA Guangzhou Co., Ltd.

TEL: 86-20-38108256 info@atago-china.com

ATAGO RUSSIA Ltd.

TEL: 7-812-777-98-98 info@atago-russia.com

ATAGO NIGERIA Scientific Co., Ltd.

TEL: 234-707-558-1552 atagonigeria@atago.net

1601K Printed in Japan



Soluciones Tecnológicas Avanzadas Limitada.

Román Díaz 462 – Providencia – Santiago-Chile

Fono: +56-2-22359928

servicio@stalab.cl

www.stalab.cl

Valor de lectura del instrumento con el estándar.

