ATAGO Products For Honey Quality control



Refractometer Polarimeter - Making the invisible, visible -

Fusion of refractive index and angle of optical rotation

The ideal All-in-One solution for Honey Quality control. Honey moisture, Brix, Angle of rotation and Fructose to glucose ratio simultaneous check.

Measurement in 3 easy steps



1. Fill the sample stage up to the fill line (approx. 3mL).



2. Press START.



3. Measurement is displayed.

Automatically calculated scales

Press "User" to select the desired scale: Fructose to glucose ratio and Honey moisture.





A.R. - Angle of Rotation Brix - Brix

*Pressing "User" switches the scale in the following order: Fructose to glucose ratio \rightarrow Honey moisture

User - Factory Setting: Fructose to glucose ratio*

Measurement evaluation indicator

Measurements are evaluated against pre-set tolerance limits, and the result is indicated by green or red light. (Upper and lower tolerance limits must be set in advance to using this function)



Green light [Within tolerance]



Red light [Outside tolerance

Specifications

RePo-4 Cat.No.5014

Measurement	Angle of Rotation (°)	Resolution	Angle of Rotation (°): 0.01°
scales	, ,	Resolution	
	Brix (%)		Brix (%): 0.1%
	Fructose %		Fructose %: 0.1%
	Honey Moisture %		Honey Moisture % : 0.1%
	Temperature (°C)		Temperature: 0.1°C
Measurement	Angle of Rotation (°)	Measurement accuracy	Angle of Rotation (°): ±0.1° (at 20°C)
readings	Brix (%)		Brix (%): ±0.2%
	Temperature (°C)		Honey Moisture %: ±0.2%
	User (Fructose % / Honey Moisture %)		Temperature: ±1°C
	Brix (%) with Automatic Temperature Compensation	Measurement time	12 seconds
Measurement	Angle of Rotation (°): -5.00 to +5.00°	Ambient temperature	15 to 40°C
range	Brix (%): 0.0 to 85.0%	Storage temperature	0 to 65°C
	Fructose %: 0.0 to 99.9%	Temperature compensation range	Brix (%): 15 to 40°C
	Honey Moisture %: 13.0 to 30.0%		Honey Moisture %: 15 to 40°C
	Temperature: 15.0 to 40.0°C	Sample volume	3ml
Display range	Angle of Rotation (°): -5.99 to +5.99°	Measurement wavelength	589nm (near D-line)
	Brix (%): -2.0 to 86.6%	Light source	LED
	Fructose %: -2.0 to 102%	Power supply	Size AAA alkaline battery × 4
	Honey Moisture %: 11.5 to 30.0%	International protection class	IP64
	Temperature: 14.0 to 41.0°C	Dimensions and weight	101×160×38mm,325g (main unit only)

Fields of application

- Checking honey's moisture which is the quality aspect that determines the ability of honey to remain fresh.
 Checking honey's brix which gives idea about the total dissolved solids as some part of the moisture.
 Checking honey's angle of rotation which according to international standards, helps to distinguish between blossom and honeydew honeys.
 Checking Fructose to glucose ratio which is important for understanding the rate of crystallization in honey.

Feel free to contact us on other possible fields of application

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Refractometer









The easiest, most objective way to check honey moisture

Purpose of Use



- To check the quality of outgoing products
- To check the grades of incoming products

How to Measure



Place the sample onto the prism surface.



Press the START key.



The measurement value will be displayed in 3 seconds.

Accessories





PAL-strap



Reason to choose PAL-22S



Digital display -no more boundary line



Calibration with water only -no more calibration liquids



Rinse under running water



Measurement time, only 3 seconds!



Measure indoors & outdoors



Temperature display

Specification

Measurement Range	Honey Moisture 12.0 to 30.0%, Temperature 10.0 to 40.0°C
Resolution	Honey Moisture 0.1%, Temperature 0.1°C
Measurement Accuracy	Honey Moisture ±0.2%, Temperature ±1°C
Measurement Temperature	10 to 40°C (ATC*)
Ambient Temperature	10 to 40°C (ATC*)
Sample Volume	0.3ml or more
Measurement Time	3 seconds
Power Supply	2 alkaline batteries
Battery Life	Approx. 11,000 measurements (Using a new alkaline battery)
International Protection Class	IP65 Water Resistant
Dimensions and Weight	55 (W)×31(D)×109(H)mm, 100g (Main unit only)

*ATC: Automatic Temperature Compensation

Digital Hand-held "PEN" Refractometer

PEN-HONEY

Cat.No.3752

Measure the moisture content of honey with this ergonomic, dip-type refractometer optimized for one-handed operation.



 Automatic Temperature Compensation (ATC) •International Protection Class: IP65 (Except eyepiece)

Measurement Range	Honey Moisture 13.0 to 30.0%		
Resolution	Honey Moisture 0.1%		
Measurement Accuracy	Honey Moisture ±0.2%		
Temperature compensation range	10 to 100°C		
Ambient Temperature	10 to 40°C		
Dimensions and Weight	16×3.8×1.8cm, 70g (Main Unit only)		

All ATAGO products are designed and manufactured in Japan.

|HACCP|GMP|GLP|







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