

Measurement Objects • Pretreatment Apparatus • Measurement Ingredients

G T N－B						
Measurement Objects	Pretreatment Apparatus	Measurement Ingredients				
		Moisture content	Total Nitrogen	Neutral Detergent Fiber NDF including ash	Caffeine	Polyphenols
Black Tea	Grinding	●	●	●	●	●

Rem. 1 ● the ingredient can be analyzed.
2 Other ingredients are under development.

Specifications

Model	G T N－B		
Measurement system	NIR Spectroscopy		
Measurement Objects	Black Tea		
Measurement Time	Approx. 15 seconds after closing the sample drawer		
Pretreatment Apparatus	Grinding by the fixed grinder		
Dimension	Width400mm × Height354m × Depth362mm		
Weight	Approx. 14. 6Kg (Main Instrument)		
Power Supply	AC100V(50/60Hz)		
Power Consumption	100W		
Measurement Environment	10-15 degree Celsius	25-80 percent relative humidity	No direct sunlight
Storage Temperature	0 ~ 50 degree Celsius		
Accessories	Loading tray、Brush、Sweeping brush、Screw driver、Spare fuse、Earth code、Specific printer、Printer cable、Printer form、Sample bottle12		
	Sample cell		
Option	Grinder、Dust collector (Vacuum cleaner)		

* In the following case, please keep in mind not measured correctly
1. The additive is mixed 2. Coloring etc. are performed

* Note that specifications and appearance are subject to change without notice in order to improve the machine.

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PRODUCTS CATALOGUE
Black Tea Ingredients Analyzer GTN-B

NEW

Ingredients Analyzer for **Black Tea**
Instantaneous measurement of major ingredients
Ideal for quality evaluation!!



Manufacturer **Shizuoka Seiki Co., Ltd.**
Sales and Maintenance **Kawasaki Kiko Co., Ltd.**

Black Tea Ingredients Analyzer

GTN-B

More quickly! More safely!!
More conveniently!!!

Black tea ingredients analysis is available

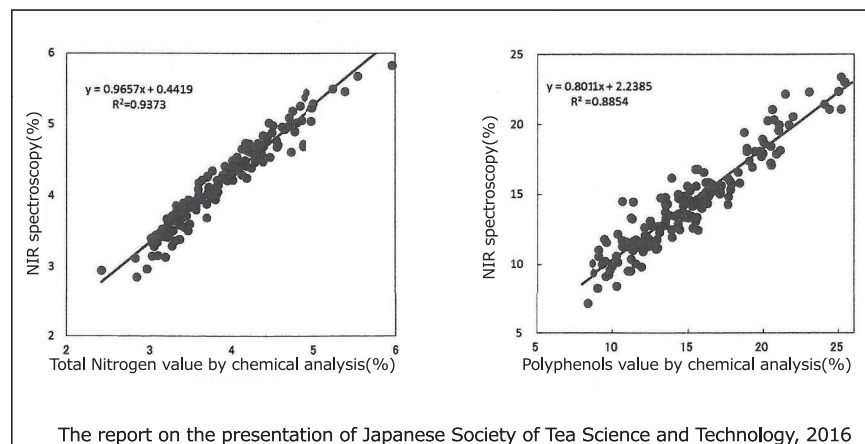
Anyone can analyze
black tea ingredients



Benefits and Features

- *Easy to evaluate the quality by everyone, to analyze ingredients easily, safely and quickly
- *Instantaneous measurement of major ingredients with reliable accuracy
Moisture content, Total nitrogen, Neutral Detergent Fiber NDF including ash, Caffeine, and Polyphenols
- *Intuitive color touch screen, eliminating operator training
and a measurement result also can be found at a glance
- *The fixed small printer can be changed to Japanese or English

Reliable Measurement Accuracy



Commercialization
by joint research
with Shizuoka Agriculture
and Forestry Research Institute,
Tea Research Centre
and Shizuoka Seiki Co.,LTD
and our company



Comparison of the quality evaluation method

	Organoleptic evaluation	Chemical analysis	This analyzer
rapidity	☉	✕	☉
safety	△	✕	☉
simplicity	△ (*)	✕	☉
objectivity	△	☉	☉
reproducibility	△	☉	☉

*Skill is required although a special facility
or instrument is not needed.

GTN-B Print sample

Tea Ingredients Analyzer	
Measuring Result	
Date	2016/10/28 13:10:10
Measurement Objects	black tea
Sample ID	12345
Customer ID	12345
Moisture content	3.5 %
Total Nitrogen	3.9 %
Fiber	21.3 %
Caffeine	2.1 %
Polyphenols	13.2 %
The notation of an ingredient is depending on making a sample of moisture content zero percent 'Dry Base DRY%'. rank table: 0 / 0000	

Measurement Procedure

