



www.licotelife.com



App. for Android

# Licote

## The Best Home Care Device



 **Braintech**

## About Licote

## The Best Home Care Device



Licote (BTC-NA23/29), developed by Braintech Co., Ltd., the personal in-vitro diagnostic chemical analyzer

It consists of a **device that detects chemical changes** in the dipstick with reagent pads attached, and a **smartphone application that analyzes and stores** the chemical change values.

Through **comparative analysis of color value changes** that occur due to chemical reactions of reagents and urine, Licote offers insights into:

- 1) **Family health** : monitoring adult diseases such as kidney disease, urinary tract infection, diabetes, and liver disease
- 2) early detection of diseases with **pet urinalysis** for your pet
- 3) **Drinking water quality** : detection of harmful inorganic substances such as various heavy metals
- 4) **Free radical concentration test** in relation to aging, onset of adult diseases, cancer, etc. thereby guaranteeing proper, timely treatment by analyzing various health indicators.

## About Licote

Licote's special features include

- **easy at-home** urinalysis for anyone
- **multi-purpose, smart chemical analyzer** for a variety of tests, including human urine tests, pet urine tests, drinking water quality tests, free radical tests, urinary tract infection tests, and kidney function tests.
- health indicator monitoring regardless of your location
  - 1) home, nursing homes, or medical facilities in **isolated areas**
  - 2) **at a reasonable price**
- **convenient test result tracking** with a storage for more than 30,000 data

- Using Licote application for convenient tests
- Quick testing time (6 seconds for 10 parameters)
- Reliable and Specific test results (Medical device class 2 approval)
- One device to test for human, pets, water quality, free radical, etc.
- One device for multiple user access and management function
- Easily washed with water with the water-proof material(IP68) as that of a smartphone
- The best health monitoring device in the contactless era



• About Composition •

• ◯  
Licote set comes with



a device that converts the chemical reactions on the test strip into color values



a smartphone application that analyzes the color values



test strip sample (20 tests)



test strip for device testing (3 parameters/1 strip)



user instructions



pouch





Licote-designated strips sold here

- ※ you must use **Licote-designated strips only**
- ※ currently, the strip types that can be used are
  - 10-parameter human urinalysis
  - 10-parameter veterinary urinalysis
  - drinking water tests (coming soon)
  - free radical tests(coming soon)
  - UTI, ACR tests (coming soon)

• About Instructions •

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Licote instructions (example: urinalysis)

- 1) Collect the first morning urine (recommended) in a small cup.
- 2) Prepare a urine strip.
- 3) Dip the strip in the cup.
- 4) Wipe the remaining urine on the strip with a tissue.
- 5) Wait approximately 60 seconds for the chemical reaction between the test strip and urine to take place.
- 6) In the meantime, sync the Licote device with its smartphone application.
- 7) Place the strip on the testing device and close the cover.
- 8) Conduct the analysis on the application.
- 9) Check the results on your smartphone screen approximately 6 seconds later.

- 01  Collect urine in the cup.
- 02  Prepare the strip
- 03  Moisten the urine Strip
- 04  Remove waste of the prepared strip with tissue paper.
- 05  Place the strip on the device and close the lid. Then the strip will be analysed by Licote application in a smartphone.

※ Results are displayed in **four levels**:



Licote's uses

Licote's uses (a variety of tests)

- Monitoring personal health using urinalysis
- Monitoring the health of your pets (urinalysis)
- Harmful mineral test for drinking water
- Free radical (aging risk factor) concentration test
- Urinary Tract Infection (UTI) test
- Kidney function test – Urine Albumin to Creatinine Ratio (ACR) test
- Other tests using the dipstick



Licote's uses

The Best Smart Home Care Device For Your Family

Licote chemical analyzer offers quick and easy, at-home monitoring of health indicators for ill, disabled, elderly, or health-conscious users by helping them detect conditions like **adult diseases** via a wide range of tests including **urinalysis, free radical tests, UTI**, etc.

IoT technology has brought an astonishing development to the health care industry, particularly to the home health care area.

Licote, an IoT healthcare device with a designated smartphone application, offers

- 1) quick (6 seconds),
- 2) accurate (minimum 95% accuracy) test results
- 3) and convenient tracking of more than 30,000 test results data,
- 4) allowing precise remote diagnosis and prescription via telemedicine system synchronization.

Test Strip launching dates

	<b>2021. 6. (launched)</b> Human, Pets' urine tests
	<b>2022. 6.</b> Drinking water, free radical
	<b>2023. H1</b> UTI, ACR tests

• Where can Licote be used? •

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Where can Licote be used?

- For personal use at home (including for pregnant women and the elderly)
- For use at long-term care facilities or by caregivers for the elderly or the disabled
- For use in medical facilities in medically underserved areas of rural, military, and underprivileged populations
- For application to telemedicine platforms or systems
- For use in detecting diseases prior to signing health insurance policies



• Where can Licote be used? •

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The Best Home Care Smart Device

Licote chemical analyzer is a device that offers convenient insight into your health through urinalysis, free radical tests, UTI tests, etc.

•○  
The essential device for medical facilities in underserved areas, including isolated or doctorless regions

With its compact size, convenient instructions, and reasonable price, Licote is appropriate for use in small clinics or public medical centers in small rural villages or isolated areas. Care providers can also use the device to monitor the health of their elderly or disabled patients by checking for various conditions including kidney disease, liver disease, diabetes, and hematuria, thereby promoting timely treatment.

•○  
Telehealth System

Recently, with rising demand and improved awareness, the telehealth market is seeing a rapid growth. Telehealth facilitates telemedicine practices, remote monitoring of vital signs such as blood pressure or ECG, and health education services.

Using telehealth technology, doctors can offer remote assessment, diagnosis, as well as electronic treatment and medicine prescriptions. In addition, telehealth enables doctors to detect early on any changes in their remote patients, according to which they may change the prescribed treatment or medicine.

Urinalysis can easily be implemented in telemedicine or remote monitoring services. Along with other personal health management devices (manometers, thermometers, patient monitors, etc.), Licote's multi-purpose urinalysis enables accurate remote medical consulting for kidney/liver/diabetic patients, as well as general patients.

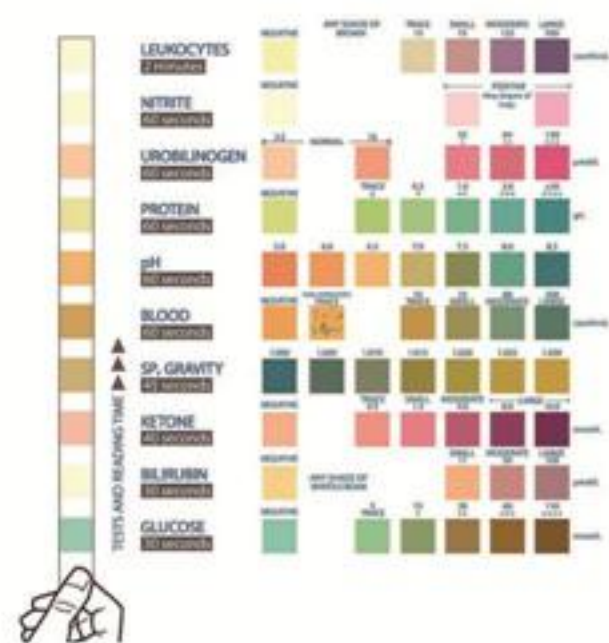
Licote is the optimal telemedicine device with its smartphone-facilitated diagnosis, data management, and data transmission.

• Detectable diseases with urinalysis •

●○ Detectable diseases with urinalysis

Being a waste by-product secreted by the kidneys following blood filtration, urine contains various metabolites. For this reason, urinalysis is used to detect not only urinary system abnormalities, but also endocrine or metabolic disorders.

〈Urinalysis Color Chart〉



- Leukocyte : diabetes, nephrotic syndrome, hypertension
- Nitrite : urinary tract infection, bladder infection, bacterial urethritis
- Urobilinogen : hepatic cirrhosis, hepatic damage, viral hepatitis
- Protein : hypertension, congestive heart failure, renal tumors
- PH : renal failure, urinary tract infection, diarrhea, metabolic acidosis
- Occult bleeding : urinary tract infection, hepatolith, kidney stones, kidney damage
- Specific gravity : chronic renal failure, nephrotic syndrome, heart failure
- Ketone : Hyperglycemia, metabolic acidosis, ketosis (accompanied by diabetes)
- Bilirubin : Hepatitis, gallstones, bile duct disease
- Glucose : Hormonal disorders, liver disease, diabetes, etc.

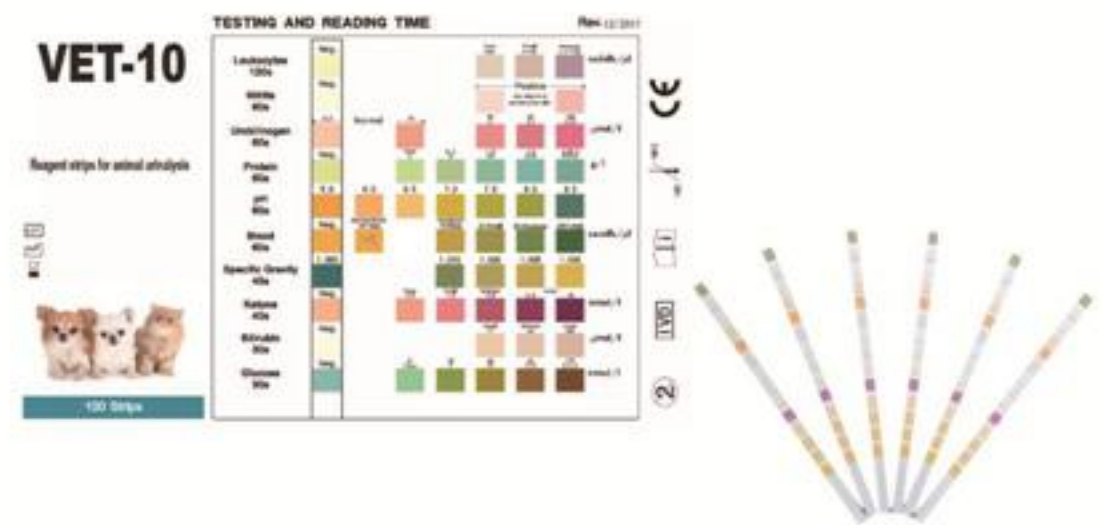
• Pet Urinalysis •

●○ Pet Urinalysis

When your pet gets ill, it is hard to notice initial symptoms, and getting worse without any specific symptoms. Therefore, we have to prevent pets' diseases in advance, and let pets have proper treatment by early detection is the most important point.

Pet urinalysis, just like human urinalysis,

- 1) utilizes semi-quantitative analysis
- 2) for early detection of abnormalities
- 3) through stress-free urinalysis
- 4) that offers immediate, highly useful results.



- ※ Parameters to watch for
  - Bilirubin : Critical even in small amounts in cat urinalysis
  - Ketone : Related to diabetes and malnutrition
  - Nitrite : Low efficacy in veterinary urinalysis
  - Glucose : Not generally detected in dog or cat urinalysis
  - White blood cells : Particularly applied to cat urinalysis with frequent false-positive results



• Harmful mineral test for drinking water •

●○ Harmful mineral test for drinking water

Licote ensures the right to consume clean water by testing for hazardous minerals in drinking water. You can now check the mineral content of drinking water using Licote at the convenience of your home.



⟨Drinking Water Test Dipstick⟩

• Free radical tests •

●○ What are free radicals?

Free radicals are unstable atoms that damage cells. They are typically produced during respiratory or basic metabolic activities, but they can also be produced by environmental pollution, toxins, UV rays, and stress. These free radicals can cause oxidative actions in the body, damaging cells, DNA, and tissues, which lead to their reduced functions. According to a recent study, free radicals are closely related to not only aging, but also to the onset of vascular disease, cancer, adult disease, brain disease, and skin disease.

●○ Why take a free radical test?

Free radical test is a part of oxidative stress test, with free radicals being classified as potential risk factors of various diseases. Some examples of these diseases include a wide range of adult diseases and metabolic syndromes, and other oxidative damage-related conditions such as rheumatism, Alzheimer's, Down syndrome, and cancer.



⟨Free Radical Test Dipstick⟩

• Product comparison (vs. other domestic products) •

●○  
Product comparison (vs. other domestic products)

Product	Classification of Medical Device	Test type	Features	Price	Manufacturer (Country of manufacture)
 Licote (BTC-NA23, NA29)	Class II	Wide extensibility Urine, water quality, free radicals, UTI, renal function	<ul style="list-style-type: none"> <li>• smartphone application sync(Bluetooth)</li> <li>• multi-purpose extensibility</li> <li>• stores more than 30,000 data</li> <li>• hygienic maintenance, IP68 Grade waterproof (water washing)</li> <li>• The essential ICT device in the contactless era</li> </ul>	KRW 250,000, KRW 290,000 (wireless charging)	Braintech Co., Ltd. (Republic of Korea)
 Device A	Class II	Urinalysis	<ul style="list-style-type: none"> <li>• small (battery compatible)</li> <li>• 4.3 inch Color Touch LCD</li> <li>• user-oriented GUI environment</li> <li>• USB, BLE Communication, external printer, etc.</li> <li>• 18 parameters available</li> </ul>	KRW 990,000	Company A (Republic of Korea)
 Device B	Class I	Free radical test / urinalysis	<ul style="list-style-type: none"> <li>• quick analysis</li> <li>• stores past test results</li> <li>• telemedicine function (transmits test results)</li> <li>• 10-parameter urine test, detects malondialdehyde</li> </ul>	KRW 1,050,000	Company B (Republic of Korea)
 Device C	Class II	Urinalysis	<ul style="list-style-type: none"> <li>• 4.3 inch touch screen</li> <li>• effective personal history management</li> <li>• works on Android</li> <li>• Increased test convenience and safety</li> </ul>	KRW 990,000	Company C (Republic of Korea)

※ Licote is the only analyzer that comes with a color-change reading device and a color-change analyzing application.  
 ※ Class II medical devices require higher precision and quality than Class I medical devices.

• Product comparison (vs. other international products) •

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리코테 타사 비교(해외)

Product	Classification of Medical Device	Test type	Features	Price	Country of manufacture
 Licote (BTC-NA23, NA29)	Class II	Wide extensibility Urine, water quality, free radicals, UTI, renal function	<ul style="list-style-type: none"> <li>• smartphone application sync(Bluetooth)</li> <li>• multi-purpose extensibility</li> <li>• stores more than 30,000 data</li> <li>• hygienic maintenance, IP68 Grade waterproof (water washing)</li> <li>• the optimal contactless ICT device</li> </ul>	USD220-250	Republic of Korea
 Device D	Class I	Urinalysis	<ul style="list-style-type: none"> <li>• 5-inch touch screen</li> <li>• Built-in printer</li> <li>• 11, 14-parameter tests</li> </ul>	USD299-499	People's Republic of China
 Device E	Class I	Urinalysis	<ul style="list-style-type: none"> <li>• 8, 10, 11, 12, 14-parameter tests</li> <li>• store 2,000 data</li> <li>• thermal printer &amp; monitor</li> </ul>	USD199-399	People's Republic of China
 Device F	Class II	Urinalysis	<ul style="list-style-type: none"> <li>• 14-parameter tests</li> <li>• 2.4-inch color LCD</li> <li>• store 500data</li> <li>• USB &amp; Ble</li> </ul>	USD151-165	People's Republic of China

※ Licote is the only analyzer that comes with a color-change reading device and a color-change analyzing application.  
 ※ Class II medical devices require higher precision and quality than Class I medical devices.



• Certificates •

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Certificate of conformance

International Standard Certificates	
Declaration of Conformity(CE)	FDA Listing
Certification Agency EU CE	USFDA
Date of certification Dec., 2021	Dec., 2021
	

Domestic Certificates			
Cert. Of Free Sales	Innovative Product Designation License	In-vitro Diagnostic Device Manufacturing Certificate	Animal Medical Device Manufacturing License
Certification Agency Ministry of Food and Drug Safety	Korean Intellectual Property Office	National Institute of Medical Device Safety Information	Animal and Plant Quarantine Agency
Date of certification Jan., 2021	Dec., 2021	Jan., 2021	Dec., 2021
			

●○  
Quality certificate

Domestic Certificates			
GMP	ISO9001	ISO14001	ISO13485
Certification Agency Korea Testing Certification	ACE	ACE	ACE
Date of certification Apr., 2020	Jul., 2021	Jul., 2021	Apr., 2021
			

• Certificates •

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Intellectual Property Rights

Patent	
Urine test device	Urine analysis method
Certification Agency Korean Intellectual Property Office	Korean Intellectual Property Office
Date of certification Sep., 2019	Nov., 2019
	

Certificate of trademark registration			
Licote	Braintech	Licote	Wholesale trademark and others
Certification Agency Korean Intellectual Property Office	Korean Intellectual Property Office	EUIPO	Korean Intellectual Property Office
Date of certification Sep., 2019	Nov., 2019	Dec., 2021	Dec., 2018
			

●○  
Other Certificates and Licenses

Certificates and Licenses			
Name of Business Registration	Name of Factory Registration	In-vitro diagnostic device manufacturing license	Veterinary medical products manufacturing
Certification Agency National Tax Service	Korea Industrial Complex Corporation	Ministry of Food and Drug Safety, Gyeongin Branch	Animal and Plant Quarantine Agency
Date of certification Sep., 2021	Apr., 2021	Sep., 2020	Nov., 2021
			

## CEO Message

Founded in May, 2002.

Braintech Co., Ltd. is a company at the forefront of technological innovation, eco-friendly management, and customer satisfaction with its competitive edge in high quality electrical, electronic-technology based EMS/PBA business and personal diagnostic medical devices that meet global standards.

Braintech's key products include control boards, communication repeaters, and personal in-vitro diagnostic urine analyzers, manufactured through ODC design and OEM production. Currently, the company is working on the development of bespoke smart pillows and portable nucleic acid isothermal amplification diagnostic device. Having earned numerous recognitions for its exceptional production/quality control, Braintech received various certifications including Promising Small and Medium Enterprises of Gyeonggi-do, Technologically Innovative Small and Medium Enterprises, Venture Start-ups, as well as ISO9001, 13485, 14001, GMP, CE, and KFDA certifications. The company is a leader in technological innovation and holds a urine test device patent, as well as a urinalysis device and method patent.

Braintech hopes to continue its growth in the home healthcare and telemedicine industry with its smart personal urine analyzer, and to establish a strong foothold in the personal in-vitro diagnostic device market with its soon-to-be launched personal nucleic acid isothermic amplification detection device and biochip.

(주)브레인테크 대표이사 안지홍



## Licote's History

2022

- Participation in CES 2022
- Participation in KIMES 2022
- Licote New version (OC34) release

2021

- Domestic (Korea) Certification
- FDA Listing
- CE latest version release
- Innovative Product designation
- Domestic and international exhibitions
- Various export seminars

2020

- CE Certification
- Android application development





## Licote Product Specification

Category	Specifications	
Product Name	Personal Analyzer, Licote	
Model Name	BTC-NA23	BTC-NA29
Size(mm)	136×68×20(mm)	136×68×20(mm)
Weights	130g	130g
Power	Lithium polymer battery	Lithium polymer battery, wireless charging
Test Environment	Maximum 13 parameters, 360 tests/h	Maximum 13 parameters, 360 tests/h
System I/F	Bluetooth 5.0/BLE 5.0	Bluetooth 5.0/BLE 5.0
Waterproof	IP68 grade	IP68 grade

### Braintech Co.,Ltd.

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