

ABSOLOGY Company Profile

Save More Lives, Make Healthy Conditions.

- Company name: Absology Co., Ltd.
- CEO: Han-sang Jo
- Establishment date: March 2017
- Product: In-Vitro-Diagnostic System (Reader & Reagent)
- Address: Anyang-si, Gyeonggi-do, South Korea
- >Website: www.absology.co.kr



HISTORY



ESTABLISHED APPROVED AS A VENTURE COMPANY AND ENTERPRISE INSTITUTE LICENSE

>2018

MFDS APPROVAL OF ABSOL

GMP CERTIFICATION

>2019

>2020

ACQUIRED CE CERTIFICATE FOR for PSA, TSH, PCT, Free T4

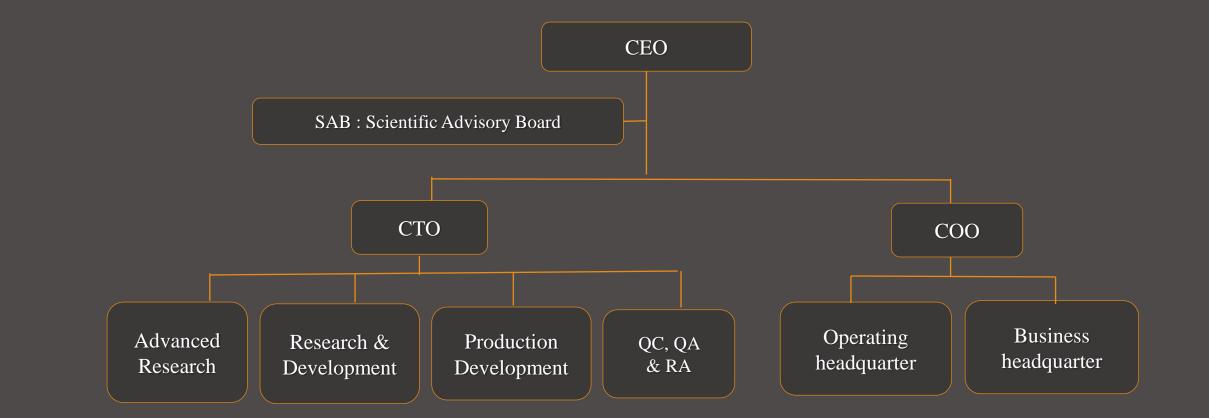
ISO 13485 & CE MARKING & MFDS

>2021

ACQURIED CE CERTIFICATE FOR COVID-19 RADIT TEST AND TSH/FT4 COMBO, CORDISOL

BEING UNDER US-FDA APPROVAL for PSA, TSH, TESTOSTERONE, VITAMIN D

SET OUT TO THE WORLD IN SOUTH KOREA SET THE NEW STANDARD



PRODUCT LINE-UP



Hormone, Tumor marker Monitoring

Low Signal & Competitive method Detection

FreeT4, TSH & Thyroid duo PSA, Testosterone / Vitamin-D, PTH Cardiac marker etc.





PRODUCT LINE-UP

VET POCT ABSOL VET



Thyroid function, Feline special Monitoring Low Signal & Competitive method Detection T4, FreeT4, Cortisol & CRP etc.



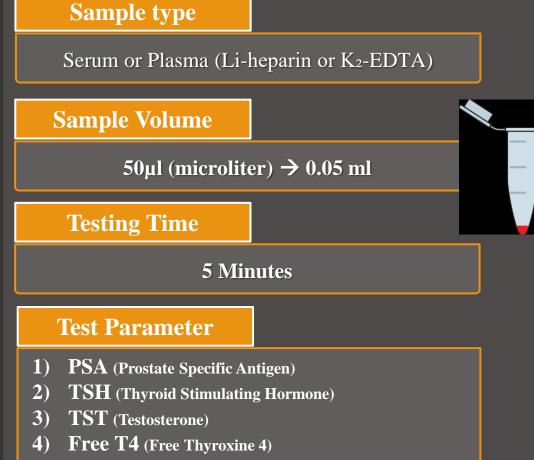
<u>COVID19 Antibody Test</u>

Qualitative test result with Quantitative value

5 min by 40ul Blood sample

Microfluidic-chip Technology

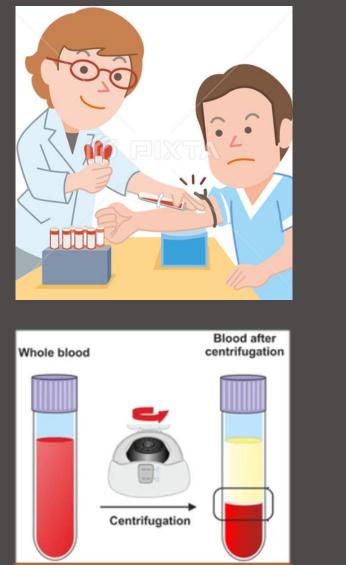
ABSOL Specification



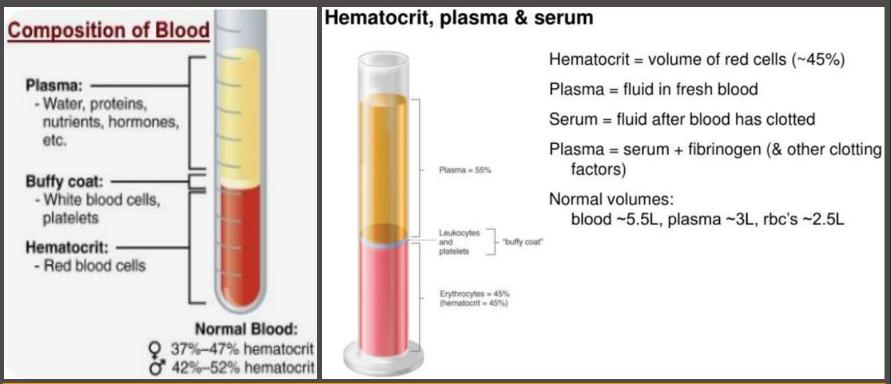
- 5) **PCT** (Procalcitonin)
- 6) Vitamin D
- 7) Cortisol
- 8) COVID-19 (IgM/IgG / Antigen / Neutralizing AB)



Why vein serum and plasma should be used?



Centrifugation



1) Men and women have different hematocrit range.

2) Venous blood and capillary blood has also different hematocrit proportion.

Thus, the serum or plasma should be used for the reliable and accurate testing performance.

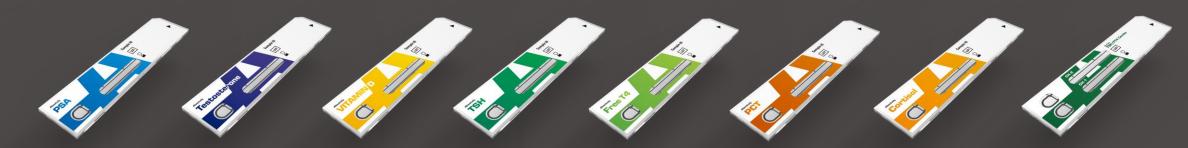
ABSOL

Make Healthy Condition

- Point-of-Care Immunoassay Analyzer with Microfluidic technology
- High Accuracy & Stability
 - Active flow control on/off function with pressure to minimize errors from patient blood variations and tolerance of cartridge
 - Built-in heating tray to give the best condition for immune reaction
- Easy to use-No specialist knowledge required
- Test time: **5** minutes
- Duplex & Combination Test available



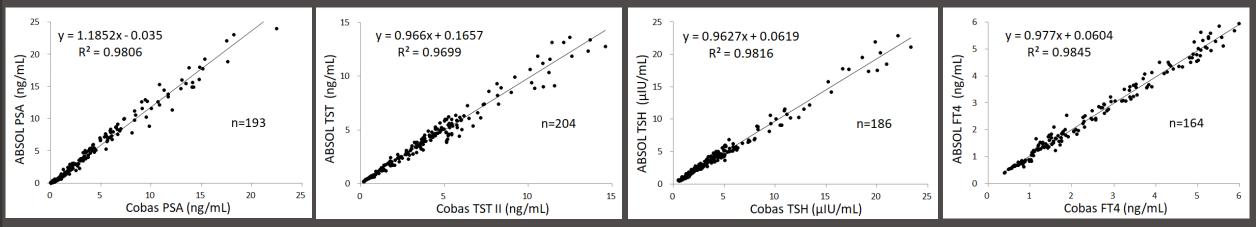
Absoludy Testing Markers

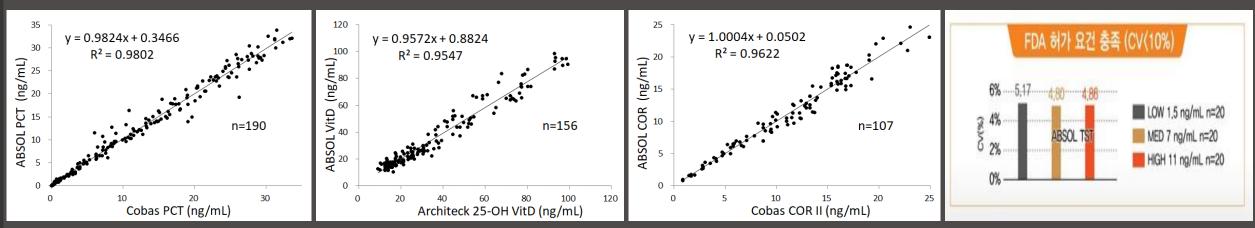


	PSA	Testosterone	Vitamin D	TSH	Free T4	РСТ	Cortisol	TSH / freeT4 Combo
AMR Analytical Measurement Range	0.02 ~ 25 ng/ml	0.2 ~ 15 ng/ml	10 ~ 110 ng/ml	0.06 ~ 25 ulU/ml	0.4 ~ 6 ng/dl	0.05 ~ 35 ng/ml	0.5 ~ 25 ug/dl	TSH: 0.06 ~ 25 uIU/ml FT4: 0.4 ~ 6 ng/dL
Package	20Tests / KIT						20 Tests / KIT	
Testing Time	5 Minutes (Vitamin D needs pre-treatment for 30 minutes before ABSOL testing)						5 Minutes	
Sample Type & Volume	Serum & Plasma (Li-heparin, K2-EDTA) / Volume 50 µL						Serum & Plasma / Volume 100µL	
Storage	2°C ~ 8°C					2°C ~ 8°C		
New	in 2022 Influenza A&B Troponin I, CK-MB, NT-ProBNP, D-Dimer, PTH							
Markers Plan	in 2023 BNP, Hs-CRP, Intact HCG, TT3, AMH, E2, FSH							

ABSOL

Excellent Performance



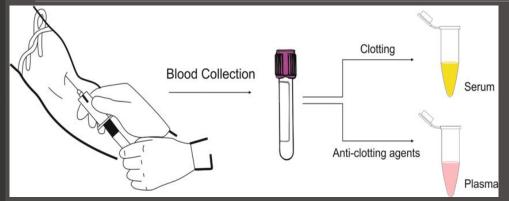


US FDA Requirement (CV <10%)

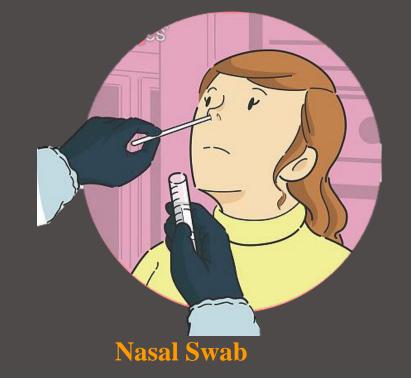
www.absology.co.kr

ABSOL COVID-19 Test





Serum or Plasma



Covid-19 IgM/IgG Combo

- **Covid-19 Neutralizing Antibody**
- Covid-19 Tab/Nab Combo(1ch Tab, 2ch Nab)

Absoludy COVID-19 Ag





RELIABLE

Microfluidic chip with Active Flow technology Built-in on/off valve system to control the flow of specimen Heating tray Adjusting to body temperature (37°C) during the test

ACCURATE Sensitivity: 98% Specificity: 99%

EASY TO USE

No special knowledge required Intensive GUI Nasopharyngeal swab sample

OTHER TEST MENU Available PSA, Testosterone, Vitamin D, TSH, FreeT4, PCT, COVID-19 IgM/IgG Combo, COVID-19 Ag Thyroid duo, Cortisol

Covid-19 Antigen

Influenza A/B

Covid-19 Ag/ Flu Combo (1ch Ag, 2ch Flu)





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ABSOL COVID-19 Clinical Report

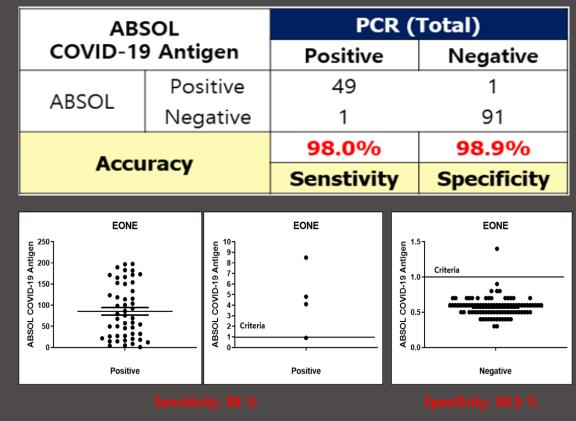




s		PCR (Total)				
COVID-19	lgG	Positiv	/e	Negative		
	Positive		55		0	
ABSOL	Negative		5		92	
Accu			91.7 %		100.0 %	
Accuracy			Senstivity		Specificity	
SCL 0 20 20			SCL		SCL	
Ben	95 20 1.5 0.0 0.5 0.5 0.5 0.5 0.5 0.5 0	* * *	ABSOL COVID-19 IdM/IqG	0.5- 0.0- 0.0- 0.0- Negative		

Sensitivity: 91.7 % Specificity: 100 % ABSOL COVID-19 IgM/IgG Antibody Test Result

이원의료재단 EONE Laboratories



ABSOL COVID-19 Antigen Test Result

ABSOL COVID-19 Neutralizing Antibody Test

The outbreak of COVID-19 Disease



COVID-19 Vaccination





Neutralizing antibodies can block the COVID-19 virus. So, it is needed to keep checking the COVID-19 Neutralizing Antibody levels to get vaccinated again.

ABSOL COVID-19 Neutralizing Antibody Test



Neutralizing Antibody Test K

Positive: COI > 1 (it has neutralizing antibody)

Negative: COI < 1 it has not neutralizing antibody

*Measuring COI range: 0.8 ~ 18



ABSOL HS

> Save More Lives

- Automated **High sensitive** ELISA system (detection to Femtogram level)
- High Accuracy & Stability (**PIFA Technology**, **Built-in heating tray**)
- Early diagnosis of **neurodegenerative** and **cardiovascular disease**
- Sample type: Serum, Plasma and Exosome
- Test time: 30 minutes
- Multi-throughput (under developing)



ABSOL HS

> ABSOL HS Testing Markers



	Hs-TnI	Aβ oligomer OAβ	Aβ Monomer 40 MAβ40	Aβ Monomer 42 MAβ42	Ρ-Τau 181 Ρτ181	P-Tau 217 Ρτ217	NfL	mTBI marker
Related Disease	Myocardial Infarction	Alzheimer's Disease						Traumatic Brain Injury
Analytical Measurement Limit	Sub pg/ml (~ 0.1 pg/ml)		Sub pg/ml (0.1 pg/ml)					
Package	10 Tests / KIT							
Testing Time	30 Minutes							
Sample Type	Serum & Plasma	e Plasma (K2-EDTA)					Plasma (K2-EDTA)	
Sample Volume	20 µL							
Storage	2°C ~ 8°C							

What is the ABSOL VET?

> We Do Take Care of Cat and Dog Healthy Condition

- Accurate & Stable Diagnostics
 - Microfluidic Technology & Active Flow Control
- Benefit: Duo & Combo Test Available with one cartridge
- Specialized in Thyroid & Tumor markers
 - Thyroid: Total T4, Free T4, cTSH
 - Tumor: TK1, cCRP, fSAA
 - Others: cCortisol, SDMA, cD-dimer, Troponin I
- On the Spot: Test Time 5 minutes
- Low maintenance Cost & Easy to Use



Why it should be **ABSOL VET**?

Fluorescent Immunoassay Analyzer with Plastic Microfluidic Test Chip Technology performs significantly accurate quantitative test results compared to membrane-based device.

ABSOL VET applies 'Active Flow Control' technology to control the flow of samples in the microfluidic chip to eliminate various error factors that affect the test results for ensuring test stability.

The **'Heating Tray' built into** ABSOL VET provides the optimal reacting condition to improve the reliability of test results. And the **QC Cartridge** can check and maintain the analyzer accuracy and function in easy and quickly. The **Code chip** included in the reagent makes test chip's calibration and correct LOT information to prevent from the inaccurate test results.

ABSOL VET can be used for monitoring the disease with it's high accuracy and stability of quantitative test result analysis.

ABSOL VET has **simple test procedure and easy to use** and no needed any specialized skill and technique. ABSOL VET **testing time is only 5 minutes** with quantitative test results. And it can support the quick decision-making by veterinarians.

ABSOL VET Specification

VET POCT ABSOL VET



Specialized in Thyroid & Tumor markers

Thyroid / Total T4, FreeT4, cTSH Tumor / TK1, cCRP, fSAA Other / Cortisol, PTH, SDMA, cD-dimer

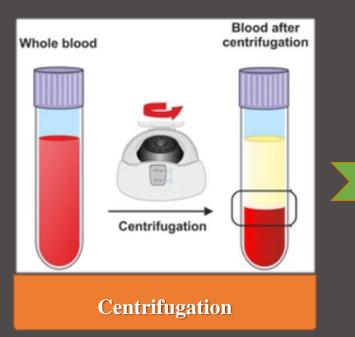
ABSOL VET Specification

Electrical Input	100 ~ 240 V (AC) / 0.7 ~ 1.4A / 50/60 Hz				
Electrical Output	12V (DC) / 5.0A				
Dimension	240 mm * 365 mm * 270 mm (W * L * H)				
Weight	5.6 Kg				
Protection	IPX0				
Display	7.0" (800 * 480 TFT LCD) Touch Screen				
Operation Temperature	15°C ~ 30°C (Humidity 10% ~ 80%)				
Testing Time	5 Minutes				
Sample Type / Volume	Serum / 50µ1				

How to Use ABSOL VET



Step 1. Collecting the vein blood from Dog or Cat



Step 2. Proceeding the centrifugation to separate the serum (3,000 RPM for 5 minutes)



Step 3. Mixing the serum 50µl (*CRP 5µl) with buffer solution and apply 50µl volume into the ABSOL VET

ABSOL VET Absoludy Testing Markers



	canine CRP	Total T4	Free T4	canine TSH	canine Cortisol
Pet Type	Dog	Dog / Cat	Dog / Cat	Dog	Dog
AMR (Analytical Measurement Range)	5 ~ 200 µg/dl	0.5 ~ 6.0 μg/dl	0.5 ~ 5.0 ng/dl	0.2 ~ 5.0 ng/ml	0.5 ~ 25.0 μg/dl
Packaging	10 Tests / KIT				
Testing Time	5 Minutes				
Blood Sample	Serum 5 µL	Serum 50 µL			
Storage	2°C ~ 8°C				

Current Developing Markers canine D-dimer / feline SAA / Troponin I / Ntpro-BNP

TK-1 / PTH / SDMA / Progesterone / cPL / fPL



INTELLIGENT PRODUCTION



	ABSOL HS			
Cartridge	Reader	Cartridge & Reader		
Nano crack channel structure InCyto (exclusive license) KR10-0998535 PCT/KR2009/001853 US 20160038941	Fluid velocity Detection & Control 1, 2 KR 10-1605653 (PCT/KR2015/006451) JP 2017-533531, CN201580069327.7, EP 15873420.2, US 15/518,288 KR 10-1605638 (PCT/KR2015/006453) JP 2017-533204, CN 201580069335.1, EP 15873421.0, US 15/518,073	Signal detection based on PIFA technology KR 10-2016-0039414, PCT/KR2017/003020 PIFA technology & Application KIST (exclusive license) KR 10-2016-0048235, PCT/KR2016/005278		
Chip connect tech KR 10-2018-0009341 Vent hole Structure KR 10-2018-0009339 Back ground noise elimination KR 10-2018-0009340	Optics placement Optimization 1, 2 KR 10-2017-0157955 KR 10-2017-0183699			



If you have any query or request, please feel free to contact us:

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Mobile: +82 10 3452 0312 (WhatsApp available)

We, ABSOLOGY do care and listen to the customer's voice.

Thank you.

ABSOLOGY



Choose ABSOL: "Save Lives, Make Healthy Condition."



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