

ImmuneMed

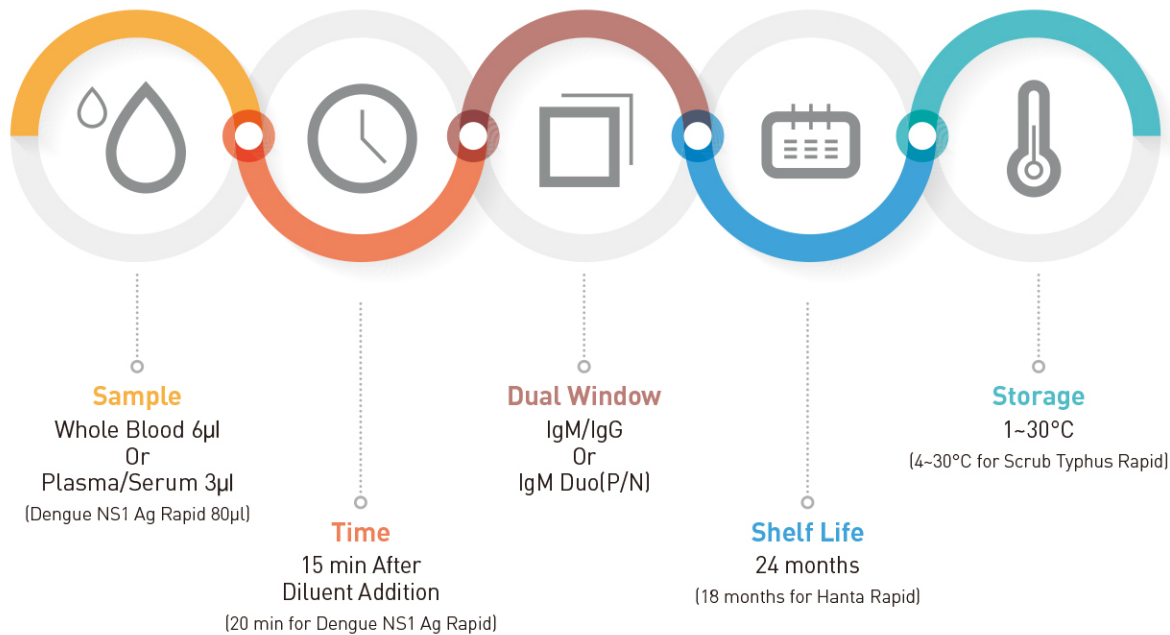
Contribution to the **human healthy life** by liberating
from the **infectious disease**.



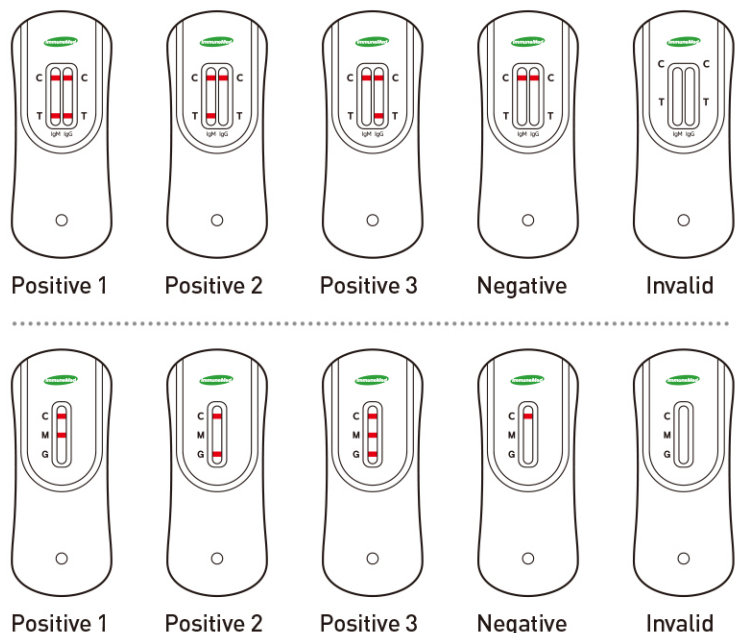
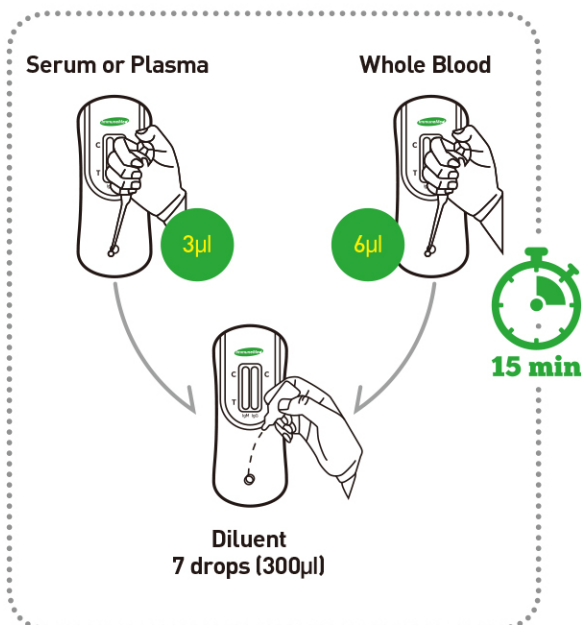
Acute Febrile Illness(AFI) Diagnostics

Leptospirosis, Scrub Typhus, Hanta(HFRS)
Dengue Fever

04/ Features of ImmuneMed Diagnostic Kits



05/ Test Method and Result Interpretation



ImmuneMed Inc.

ImmuneMed

Address and Contact Information

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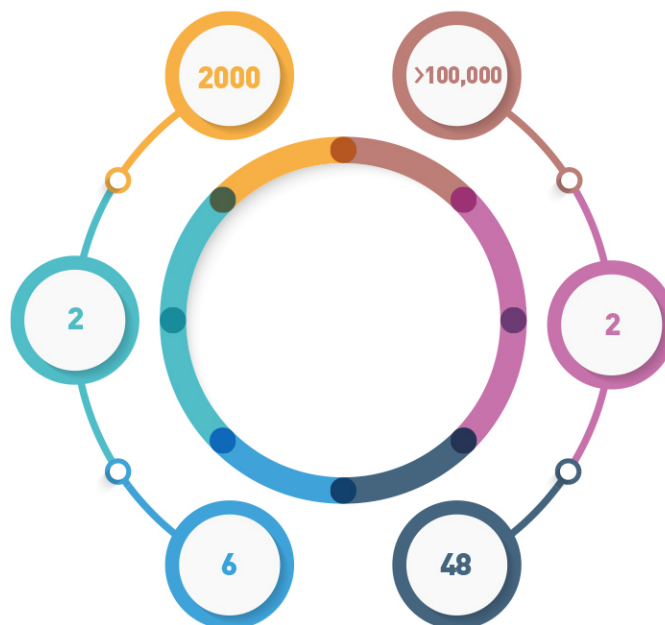
01/ Company Information

2000
Foundation Year

2
Core Technology
IVD kits development
Anti-viral drug development

6
Certificates

GMP ISO13485 CE



100,000 kits
Production Capacity

2
Main R&D Laboratories

48
Patents
15 Registered / 33 Applied

02/ Acute Febrile Illness



Diseases

- Leptospirosis
- Scrub typhus
- Haemorrhagic fever with renal syndrome
- Dengue fever



Region

- Southeast Asia
- China
- Korea
- Latin America
- Other tropical regions



Main Patients

People dwelling or enjoying in the wilds,
like farmers, soldiers and hikers.



Treatment

Different treatment should
be applied to each disease

Prolonged
fever

↑
Mortality
rate

Rapid
and accurate
diagnosis
is important

03/ ImmuneMed in vitro Diagnostic Kits

Sensitivity : 96.4%
Specificity : 98.4%



ImmuneMed Leptospira Rapid

Target Pathogen: *Leptospira interrogans*

Using genus-specific antigen which is recognized by the common antibodies of *Leptospira* patients, the kit shows superior sensitivity and specificity.

Sensitivity : 86.0%
Specificity : 89.0%

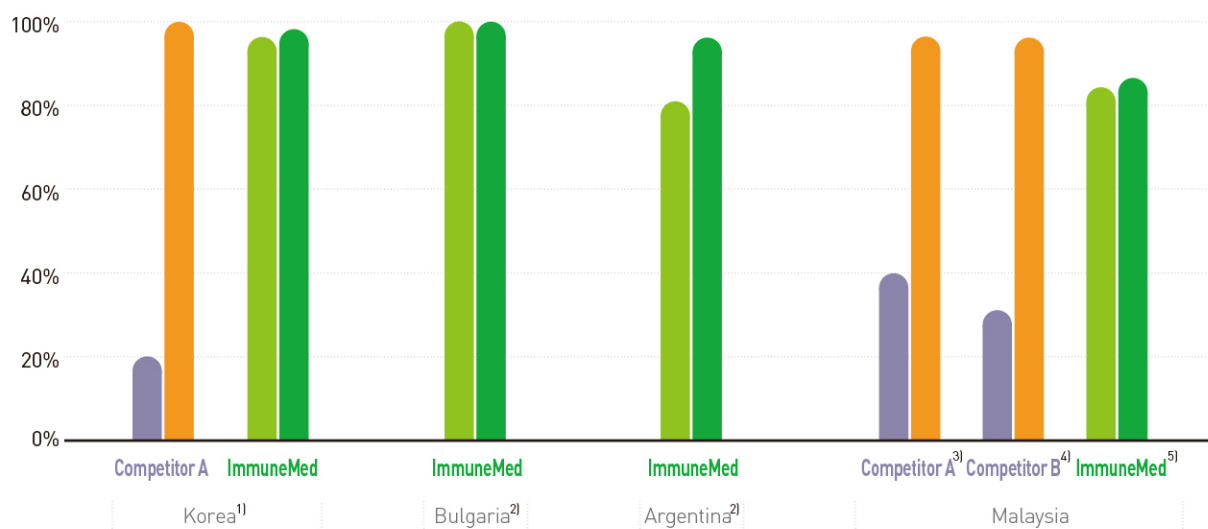


ImmuneMed Leptospira IgM Duo Rapid

Target Pathogen: *Leptospira interrogans*

IgM Semi-quantitative technology helps to diagnose the infection of *Leptospira* in the endemic regions.

Leptospira Rapid



1) Prof. Shin Dong Hun, Dept. of Laboratory medicine, Hallym University College of Medicine. Clinical Study Report for Leptospirosis. 2014, page 19

2) Iva Christova, National Reference Vector-borne Infections and Laboratory, National Center of Infectious and Parasitic Diseases, Bulgaria. J Korean Med Sci. 2016, 31, 1-6

3) Institute for Medical Research, Malaysia. Evaluation Report for Leptospirosis Diagnostic Kits. 2013

4) Chiat Han Chang, Institute for Research in Molecular Medicine, Universiti Sains Malaysia. Diagnostic Microbiology and Infectious Disease. 2014, 278-281

5) Chiat Han Chang, Institute for Research in Molecular Medicine, Universiti Sains Malaysia. Diagnostic Microbiology and Infectious Disease. 2014, 278-281

Sensitivity : 97.3%
Specificity : 99.5%



ImmuneMed Scrub typhus Rapid

Target Pathogen: *Orientia tsutsugamushi*

By mixing chimeric antigen for diverse serotypes and assistant antigen, the kit gains novel sensitivity and specificity.

Sensitivity : 100.0%
Specificity : 98.2%



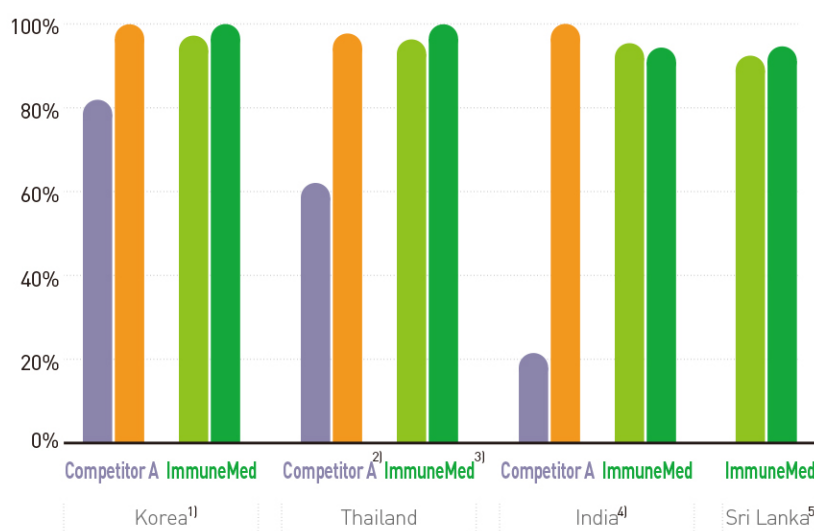
ImmuneMed Hanta Rapid

HFRS: Haemorrhagic fever with renal syndrome

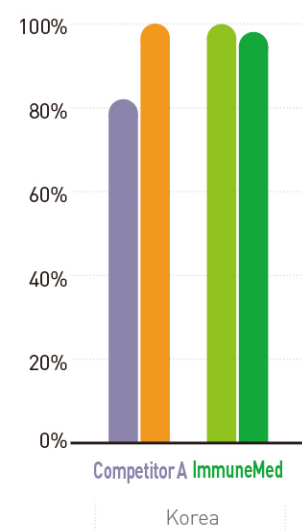
Target Pathogen: Hantavirus

Using superior antigen which is expressed in the eukaryotic cell, the kit shows high sensitivity and specificity

Scrub typhus Rapid



Hanta Rapid



1) Prof. Shin Dong Hun, Dept. of Laboratory medicine, Hallym University College of Medicine. Clinical Study Report for Scrub typhus. 2013. page 44

2) Silpasakorn S. Department of Medicine, Faculty of Medicine, Siriraj Hospital, Mahidol University, Thailand. J. Med Assoc Thai. 2012. Feb; 95 Suppl 2: S18-22

3) Prince of Songkla University. Evaluation Report for Scrub typhus Diagnostic Kits. 2015

4) Prof. Selvaraj Stephen, Dept. of Microbiology, Mahatma Gandhi Medical College and Research Institute(MGMCRI), Puducherry, India. J. Clin Diagn Res. 2016 Nov, Vol 10(11)

5) Ranjan Premaratna, Dept. of Medicine, Faculty of Medicine, University of Kelaniya, Ragama, Sri Lanka. J. Korean Med Sci. 2016, 31, 1190-1196



3 in 1



ImmuneMed AFI Rapid

Acute Febrile Illness Rapid

Target Pathogen: ① *Leptospira interrogans*
② *Orientia tsutsugamushi*
③ Hantavirus

Can be diagnosed on single test at the same time by detecting each IgM and IgG antibody specific to each target pathogen.



Result Interpretation

Positive (Leptospira)



Positive (Scrub Typhus)



Positive (Hanta)



Negative



Invalid



Sensitivity : 97.7%
Specificity : 99.5%



ImmuneMed Dengue NS1 Ag Rapid

Target Pathogen: Dengue Virus

The initial infection of Dengue viruses can be diagnosed by detecting Dengue NS1 Antigen and the screening detection results with superior sensitivity and specificity can be obtained just within 20 minutes.

Sensitivity : 98.5%
Specificity : 92.3%



ImmuneMed Dengue IgM/IgG Rapid

Target Pathogen: Dengue Virus

The infection of Dengue viruses can be diagnosed by detecting IgM and IgG antibody specific to Dengue viruses and the screening detection results with superior sensitivity and specificity can be obtained just within 15 minutes.