



Research Use Only

Meningitis Detection



Meningitis
Detection

PRODUCTS FOR Infectious Meningitis Detection

- 1 Family of Enteroviruses
- 2 6 Human Herpesviruses (HHV)
- 3 5 Bacteria



Viral and Bacterial Meningitis

▶ Super Multiplex PCR

Simultaneous detection of multiple pathogens by just one-time PCR

▶ Seeplex® PCR with High Specificity and Sensitivity

▶ Low Cost and Fast Result

▶ Applicable for Automatic System

Automatic sample preparation, detection and analysis
Rapid and easy interpretation

Types of Meningitis

● Viral Meningitis

- Caused by viruses
- Less severe
- Resolves without specific treatment within a week or two
- Also called as aseptic meningitis (e.g., enterovirus)

In case of viral meningitis, the main question for the physician is to decide whether to treat or not with antibacterial and/or anti-herpes simplex virus (acyclovir) medication on admission.

In the pediatric population, enteroviruses are the most frequent cause of viral benign meningitis, which requires neither treatment, nor extensive investigations.

● Bacterial Meningitis

- Caused by bacteria
- Quite severe and may result in
 - a) brain damage
 - b) hearing loss
 - c) learning disability
- It would also cause death.

For bacterial meningitis, it is also important to know which type of bacteria is causing the meningitis because antibiotics can prevent some types from spreading and infecting other people.

Reference:

1. Grimwood, K., P. Anderson, V. Anderson, L. Tan, and T. Nolan, 2000. Twelve year outcomes following bacterial meningitis: further evidence for persisting effects. Arch. Dis. Child. 83:111-116.
2. Rotbart HA, 1995. Enteroviral infections of the central nervous system. Clin Infect Dis 20:971-981.

Seeplex® Meningitis ACE Detection



Product	Cat. No.	Size	Sample
Meningitis-V1 ACE Detection	MG6611Y	50 rxns	CSF
Meningitis-V2 ACE Detection	MG6111Y	50 rxns	CSF
Meningitis-B ACE Detection	MG6501Y	50 rxns	CSF

Pathogen List of Seeplex® Meningitis ACE Detection

Virus panel

[6 DNA Viruses]

HSV1
HSV2
VZV (HHV3)
EBV (HHV4)
CMV (HHV5)
HHV6

[RNA Virus]

Enteroviruses
- Poliovirus
- Echovirus
- Coxsackievirus

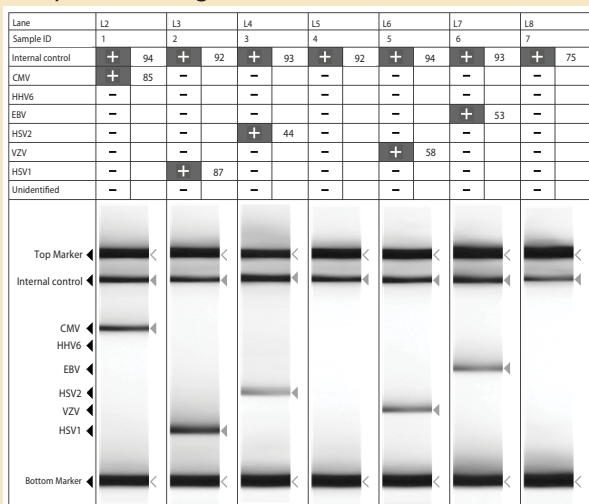
Bacteria panel

[5 Bacteria]

Streptococcus pneumoniae
Neisseria meningitidis
Haemophilus influenzae
Listeria monocytogenes
Group B Streptococcus (*Streptococcus agalactiae*)

Examples of Test Result

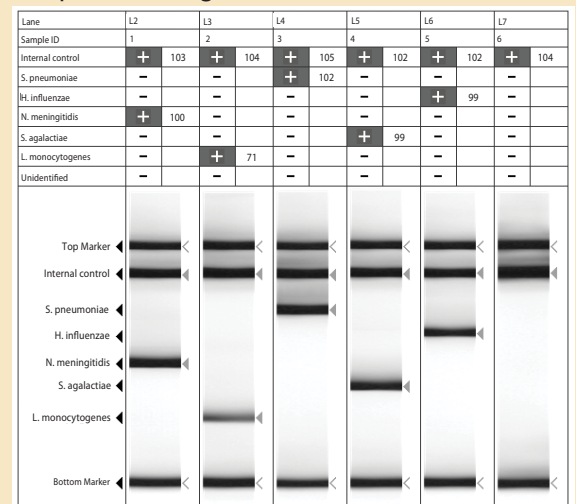
Seeplex® Meningitis-V1 ACE Detection



1~6: Clinical samples, 7: Negative control (ScreenTape® System, Lab901 Limited)

Sample	Result	Sample	Result
1	CMV	5	VZV
2	HSV1	6	EBV
3	HSV2	7	Negative control
4	Not detected		

Seeplex® Meningitis-B ACE Detection

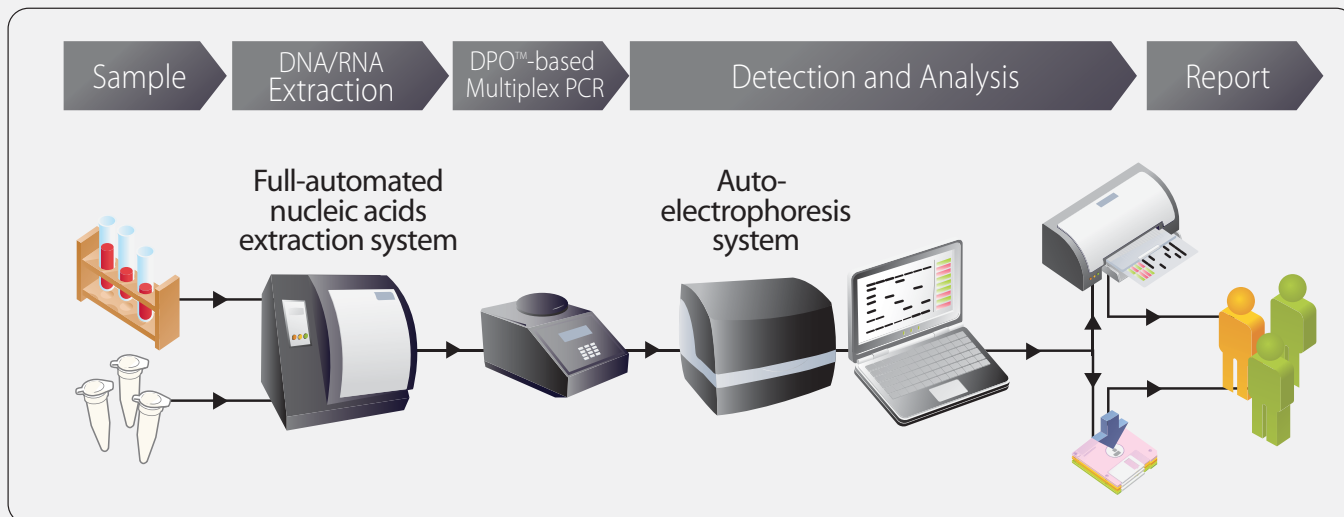


1~5: Clinical samples, 6: Negative control (ScreenTape® System, Lab901 Limited)

Sample	Result	Sample	Result
1	N. meningitidis	4	S. agalactiae
2	L. monocytogenes	5	H. influenzae
3	S. pneumoniae	6	Negative control

Rapid and easy interpretation using auto-electrophoresis (ScreenTape® System)

■ Seeplex[®] Automatic Detection System



■ Seeplex[®] Key Products

Meningitis	Detection of viruses and bacteria causing Meningitis
Diarrhea	Detection of viruses and bacteria causing Diarrhea
Somatic Mutation	Detection of BRAF mutation (V600E) characteristic for papillary thyroid carcinoma
Respiratory Pathogen	Detection of 12, 6, or 7 Respiratory viruses Detection of 6 Pneumonia bacteria Detection of 13 Respiratory viruses and 5 Pneumonia bacteria
HPV	Screening for HPVs (16, 18, High-risk, and Low-risk common) Screening for 2 STD pathogens (CT, NG) and HPVs (High-risk, Low-risk common)
STD	Detection of 6 STD pathogens Screening for 2 STD pathogens (CT, NG) and HPVs (High-risk, Low-risk common)
Drug Resistance	Detection of Vancomycin-resistant Enterococci (van A, van B) Detection of Clarithromycin-resistant H. pylori (A2143G, A2142G) Detection of Lamivudine-resistant HBV (YVDD, YIDD, L528M, YSDD)
SNP	MTHFR C677T/A1298C genotyping CYP2C19 genotyping ApoE genotyping
TB	MTB and NTM discrimination for culture specimens MTB and M. bovis BCG discrimination for various specimens MTB Detection for various specimens (Nested PCR or Single PCR)



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