

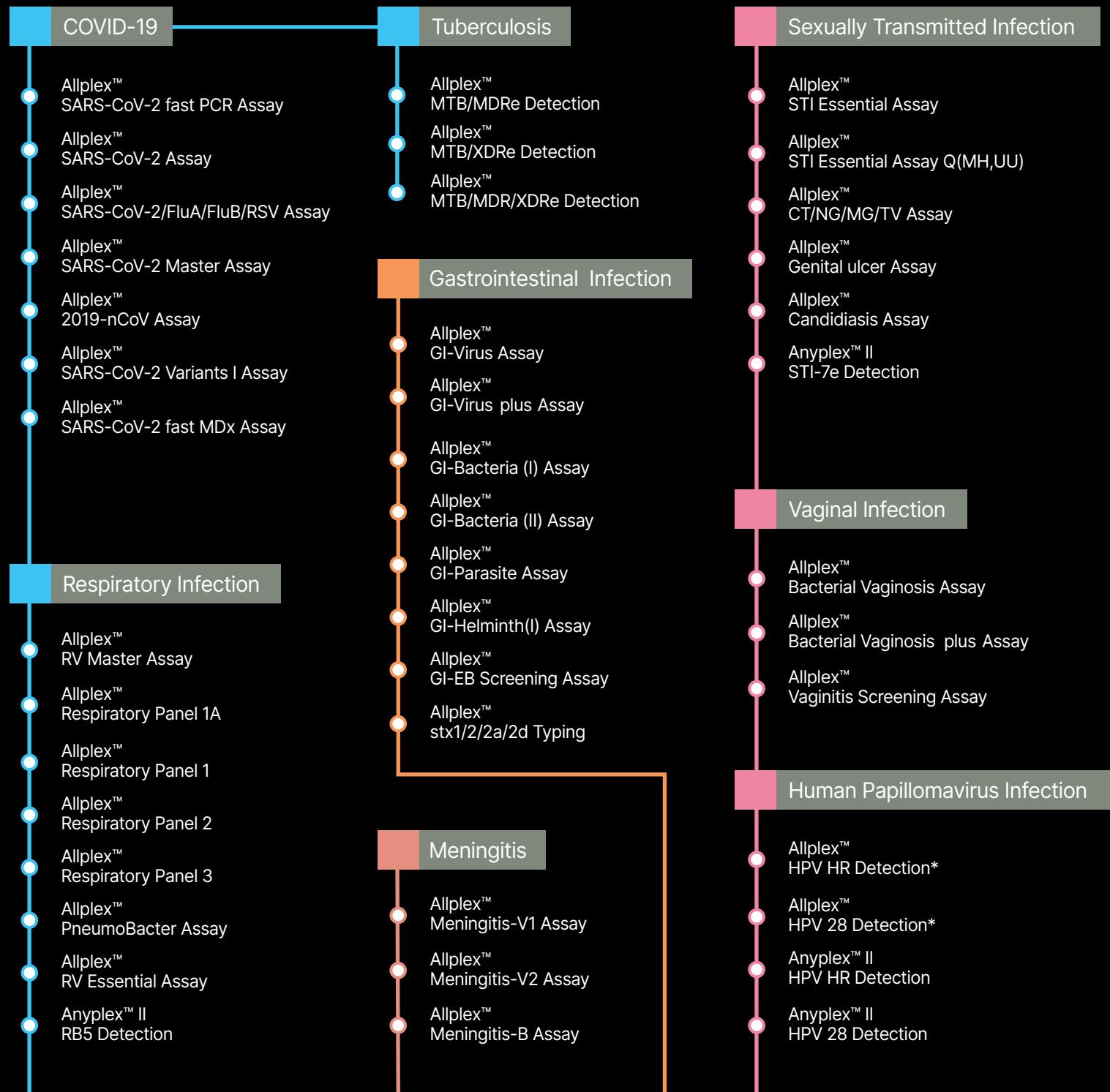
Seegene MDx Assays Pipeline

COVID-19
Respiratory Infection
Tuberculosis
Sexually Transmitted Infection
Vaginal Infection
Human Papillomavirus Infection
Gastrointestinal Infection
Antimicrobial Resistance
Meningitis
Single Nucleotide Polymorphism
Vector-borne Disease
Urinary Tract Infection
Streptococcal Infection
Fungal Infection
Monkeypox

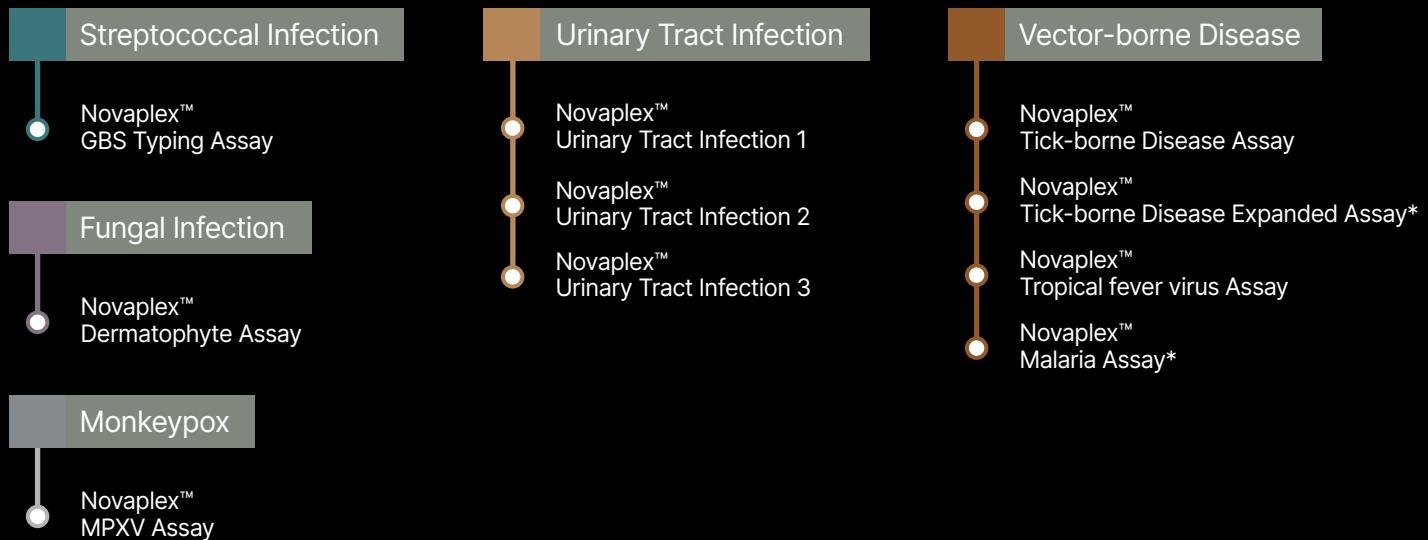
All MDx assays
in one streamlined automation system



Seegene high multiplex real-time PCR assays

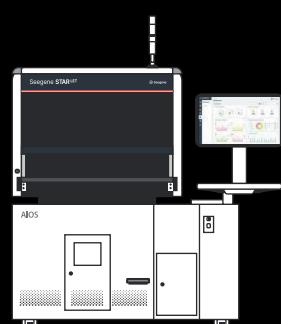


Novaplex™ product line should be used for Research Use Only.



Antimicrobial Resistance

- Allplex™ MG & AziR Assay
- Allplex™ MG & MoxiR Assay
- Allplex™ NG & DR Assay
- Allplex™ Entero-DR Assay
- Allplex™ H. pylori & ClariR Assay



All symptom-based MDx assays are compatible in one streamlined automation system

Cover all fields of molecular diagnostics

	<ul style="list-style-type: none"> • COVID-19 • Respiratory Infection • Tuberculosis
	<ul style="list-style-type: none"> • Sexually Transmitted Infection • Vaginal Infection • Human Papillomavirus Infection
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*Upcoming

COVID-19

Product	Analytes		Specimens	Cat. No.
Allplex™ SARS-CoV-2 fast PCR Assay	- SARS-CoV-2 (E gene) - SARS-CoV-2 (RdRP gene)	- SARS-CoV-2 (N gene)	- Nasopharyngeal swab	RV10345Z RV10344X
Allplex™ SARS-CoV-2 Assay	- SARS-CoV-2 (N gene) - SARS-CoV-2 (S gene)	- SARS-CoV-2 (RdRP/S gene) - Sarbecovirus (E gene)	- Sputum - Saliva - Oropharyngeal swab - Nasopharyngeal swab / aspirate - Bronchoalveolar lavage	RV10248X
Allplex™ SARS-CoV-2 /FluA/FluB/RSV Assay	- SARS-CoV-2 (N gene) - SARS-CoV-2 (S gene) - SARS-CoV-2 (RdRP gene)	- RSV A/B - Flu A - Flu B	- Sputum - Saliva - Nasopharyngeal swab / aspirate - Bronchoalveolar lavage - Nasal and oral swab (Combo-swab)	RV10259X
Allplex™ SARS-CoV-2 Master Assay	- Sarbecovirus (E gene) - SARS-CoV-2 (RdRP/S gene) - SARS-CoV-2 (N gene)	- SARS-CoV-2 (S gene) variants: • HV69/70 deletion, Y144 deletion, E484K, N501Y, P681H	- Sputum - Saliva - Oropharyngeal swab - Nasopharyngeal swab / aspirate - Bronchoalveolar lavage - Nasal and oral swab (Combo-swab)	RV10284X
Allplex™ 2019-nCoV Assay	- Sarbecovirus (E gene) - SARS-CoV-2 (RdRP gene)	- SARS-CoV-2 (N gene)	- Sputum - Oropharyngeal swab - Nasopharyngeal swab / aspirate - Bronchoalveolar lavage	RP10243X
Allplex™ SARS-CoV-2 Variants I Assay	- SARS-CoV-2 (RdRP gene)	- SARS-CoV-2 (S gene) variants: • HV69/70 deletion, E484K, N501Y	- Sputum - Saliva - Oropharyngeal swab - Nasopharyngeal swab / aspirate - Bronchoalveolar lavage - Nasal and oral swab (Combo-swab)	RV10286X
Allplex™ SARS-CoV-2 fast MDx Assay	- SARS-CoV-2 (N gene)	- SARS-CoV-2 (RdRP gene)	- Nasopharyngeal swab - Saliva	RV10354X

Respiratory Infection

Allplex™ RV Master Assay	- SARS-CoV-2 (N/S gene) - SARS-CoV-2 (RdRP gene) - Adenovirus	- Flu A - Flu B - Metapneumovirus	- PIV - RSV - HRV	- Sputum - Oropharyngeal swab - Nasopharyngeal swab / aspirate - Bronchoalveolar lavage	RV10307X
Allplex™ Respiratory Panel 1A	- Flu A (including avian influenza) - Flu B - Flu A-H3	- Flu A-H1 - Flu A-H1pdm09	- RSV A - RSV B		RP9702X
Allplex™ Respiratory Panel 1	- Flu A - Flu B - Flu A-H3	- Flu A-H1 - Flu A-H1pdm09	- RSV A - RSV B		RP10179Z RP9801Y RP9801X
Allplex™ Respiratory Panel2	- Adenovirus - Enterovirus - Metapneumovirus	- PIV 1 - PIV 2	- PIV 3 - PIV 4	- Nasopharyngeal swab / aspirate - Bronchoalveolar lavage	RP10180Z RP9802Y RP9802X
Allplex™ Respiratory Panel 3	- Bocavirus - Rhinovirus	- CoV 229E - CoV NL63	- CoV OC43		RP10181Z RP9601Y RP9601X
Allplex™ PneumoBacter Assay	- M. pneumoniae - S. pneumoniae - C. pneumoniae	- B. pertussis - B. parapertussis - L. pneumophila	- H. influenzae	- Sputum - Nasopharyngeal swab / aspirate - Bronchoalveolar lavage	RP10185Z RP10175Y RP10176X
Allplex™ RV Essential Assay	- Flu A - Flu B - Adenovirus	- HRV - RSV A/B - PIV 1/2/3/4	- Metapneumovirus	- Nasopharyngeal swab / aspirate - Bronchoalveolar lavage	RV9750X
Anyplex™ II RB5 Detection	- M. pneumoniae - L. pneumophila	- B. pertussis - B. parapertussis	- C. pneumoniae	- Sputum (not applicable on Seegene STARlet/NIMBUS) - Nasopharyngeal swab / aspirate - Bronchoalveolar lavage	RB7500X

Tuberculosis

Product	Analytes		Specimens	Cat. No.
Allplex™ MTB/MDRe Detection	- MTB	<ul style="list-style-type: none"> - Multi-drug resistance • Isoniazid-resistance (7 mutations) • Rifampicin-resistance (18 mutations) 		TB9400X
Allplex™ MTB/XDRe Detection	- MTB	<ul style="list-style-type: none"> - Extensive drug resistance • Fluoroquinolone resistance (7 mutations) • Injectable drug resistance (6 mutations) 	<ul style="list-style-type: none"> - Sputum - Cultured cell - Bronchial washing 	TB9500X
Allplex™ MTB/MDR/XDRe Detection	- MTB	<ul style="list-style-type: none"> - Multi-drug resistance (25 mutations) - Extensive drug resistance (13 mutations) 		TB10174X

Gastrointestinal Infection

Allplex™ GI-Virus Assay	- Norovirus GI - Norovirus GII	- Rotavirus A - Adenovirus F	- Astrovirus - Sapovirus	GI10184Z GI9701X
Allplex™ GI-Virus plus Assay	- Norovirus GI - Norovirus GII	- Rotavirus A - Adenovirus	- Astrovirus - Sapovirus	GI10186Z GI10188X
Allplex™ GI-Bacteria (I) Assay	- Campylobacter spp. - Vibrio spp. - Clostridium difficile toxin B	- Shigella spp. / EIEC - Salmonella spp.	- Y. enterocolitica - Aeromonas spp.	GI10201Z GI9801X
Allplex™ GI-Bacteria (II) Assay	- E. coli O157 - Hypervirulent Clostridium difficile	- STEC (stx1/2) - EAEC (aggR)	- ETEC (lt/st) - EPEC (eaeA)	GI10183Z GI9702X
Allplex™ GI-Parasite Assay	- G. lamblia - B. hominis	- E. histolytica - D. fragilis	- Cryptosporidium spp. - C. cayetanensis	GI10202Z GI9703X
Allplex™ GI-Helminth(I) Assay	- Enterocytozoon spp. / Encephalitozoon spp. - Strongyloides spp. - Hymenolepis spp.	- Ascaris spp. - Taenia spp. - T. trichiura	- Ancylostoma spp. - E. vermicularis - N. americanus	GI10189Z GI10191X
Allplex™ GI-EB Screening Assay	- Y. enterocolitica - stx1/2 - Salmonella spp.	- Campylobacter spp. - Shigella spp. / EIEC	- E. coli O157 - C. difficile toxin A/B	GI10196Z GI10198X
Allplex™ stx1/2/2a/2d Typing*	- Shiga Toxin 1 (stx1) - Shiga Toxin 2 (stx2)	- Shiga Toxin 2a (stx2a) - Shiga Toxin 2d (stx2d)		GI10359Z GI10358X

Antimicrobial Resistance

Allplex™ MG & AziR Assay	- M. genitalium	- A2058G - A2058T	- A2058C - A2059G	- A2059T - A2059C	- Urine - Genital swab	SD10319Z SD10170X	
Allplex™ MG & MoxiR Assay	- M. genitalium	- A247C - G248T	- G248A - G259A	- G259T - G259C	- Liquid based cytology	SD10232Z SD10234X	
Allplex™ NG & DR Assay*	- N. gonorrhoeae	- A2059G	- C2611T	- S91F	<ul style="list-style-type: none"> - Urine - Genital swab - Liquid based cytology - Oropharyngeal swab - Anorectal swab 	SD10368Z SD10367X	
Allplex™ Entero-DR Assay	- CPE • KPC • VIM	• NDM • IMP	• OXA-48	- VRE • VanA • VanB	- ESBL • CTX-M	<ul style="list-style-type: none"> - Rectal swab - Bacterial colony 	CR10384Z CR9700X
Allplex™ H. pylori & ClariR Assay	- H. pylori		- ClariR • A2142G	• A2143G	• A2142C	<ul style="list-style-type: none"> - Human stool - Gastric biopsy 	HC10389Z HC10200X

Sexually Transmitted Infection

Product		Analytes		Specimens	Cat. No.
Allplex™ STI Essential Assay	- C. trachomatis - T. vaginalis - N. gonorrhoeae	- U. urealyticum - M. genitalium	- U. parvum - M. hominis	- Liquid based cytology - Genital swab - Urine - Semen - Anorectal swab - Oropharyngeal swab	SD10245Z SD9801X SD9801Y
Allplex™ STI Essential Assay Q (MH,UU)	- C. trachomatis - T. vaginalis - N. gonorrhoeae	- U. urealyticum(Q) - M. genitalium	- U. parvum - M. hominis(Q)	- Liquid based cytology - Genital swab - Urine	SD10318Z SD10201Y SD10202X
Allplex™ CT/NG/MG/TV Assay	- C. trachomatis - T. vaginalis	- N. gonorrhoeae - M. genitalium		- Liquid based cytology - Genital swab - Urine - Semen - Anorectal swab - Oropharyngeal swab	SD10317Z SD9400X
Allplex™ Genital ulcer Assay	- Lymphogranuloma venereum - Herpes simplex virus 1 - Herpes simplex virus 2	- Cytomegalovirus - Varicella-zoster virus - H. ducreyi	- T. pallidum		SD10177Z SD9802Y SD9802X
Anyplex™ II STI-7e Detection	- C. trachomatis - N. gonorrhoeae - M. genitalium	- T. vaginalis - U. parvum	- U. urealyticum - M. hominis	- Liquid based cytology - Genital swab - Urine	SD10323Z SD7701X

Vaginal Infection

Allplex™ Bacterial Vaginosis Assay	- A. vaginalae(Q) - G. vaginalis(Q) - Mobiluncus spp.	- Lactobacillus spp.(Q) - Megasphaera type 1 - BV-associated bacteria 2	- B. fragilis	- Liquid based cytology - Genital swab	SD9804X
Allplex™ Bacterial Vaginosis plus Assay	- A. vaginalae(Q) - G. vaginalis(Q) - Mobiluncus spp.	- Lactobacillus spp.(Q) - Megasphaera type 1 - BV-associated bacteria 2	- B. fragilis	- Genital swab	SD10320Z SD10159X
Allplex™ Vaginitis Screening Assay	- A. vaginalae(Q) - G. vaginalis(Q) - Candida others	- Lactobacillus spp.(Q) - Mobiluncus spp. - C. albicans	- T. vaginalis	- Liquid based cytology - Genital swab	SD10321Z SD9750X
Allplex™ Candidiasis Assay	- C. albicans - C. krusei - C. dubliniensis	- C. lusitaniae - C. tropicalis - C. parapsilosis	- C. glabrata	- Liquid based cytology - Genital swab - Urine	SD10178Z SD9803X

Human Papillomavirus Infection

Allplex™ HPV28 Detection*	- 19 High-risk genotypes : 16, 18, 26, 31, 33, 35, 39, 45, 51, 52 53, 56, 58, 59, 66, 68, 69, 73, 82	- 9 Low-risk genotypes : 6, 11, 40, 42, 43, 44, 54, 61, 70	- Cervical specimen - Self-collected vaginal specimen	HP10373Z HP10372X
Anyplex™ II HPV28 Detection			- Cervical specimen	HP7S00X
Allplex™ HPV HR Detection*	- 14 High-risk genotypes : 16, 18, 31, 33, 35, 39, 45, 51, 52, 56, 58, 59, 66, 68		- Cervical specimen - Self-collected vaginal specimen	HP10371Z HP10370X
Anyplex™ II HPV HR Detection				HP7E00X

Single Nucleotide Polymorphism

Anyplex™ II Thrombosis SNP Panel Assay	- Factor II - G20210A - Factor V - R506Q - MTHFR - A1298C	- Factor V - H1299R - Factor V - Y1702C - MTHFR - C677T	- Whole blood	TS7600X
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Meningitis

Product	Analytes			Specimens	Cat. No.
Allplex™ Meningitis-V1 Assay	- Epstein-barr virus - Human herpes virus 6 - Human herpes virus 7	- Herpes simplex virus 1 - Herpes simplex virus 2 - Varicella-zoster virus	- Cytomegalovirus		MG10209Z MG9700X
Allplex™ Meningitis-V2 Assay	- Parvovirus B19 - Mumps virus	- Adenovirus - Enterovirus	- Parechovirus	- Cerebrospinal fluid	MG10210Z MG9500X
Allplex™ Meningitis-B Assay	- N. meningitidis - S. agalactiae	- E.coli K1 - L. monocytogenes	- H. influenzae - S. pneumoniae		MG10211Z MG9600X

Urinary Tract Infection

(Research Use Only)

Product	Analytes			Samples	Cat. No.
Novaplex™ Urinary Tract Infection 1	- E. cloacae complex - E. coli - K. aerogenes	- K. oxytoca - K. pneumoniae - P. mirabilis	- P. vulgaris - P. aeruginosa - S. marcescens		R-SR10228W
Novaplex™ Urinary Tract Infection 2	- A. schaalii - E. faecium - E. faecalis	- C. albicans - Candida others - S. agalactiae	- S. epidermidis - S. saprophyticus - S. aureus	- Urine	R-SD10240W
Novaplex™ Urinary Tract Infection 3	- A. baumannii - A. uriniae - C. freundii	- C. koseri - C. urealyticum - M. morganii	- P. agglomerans - P. stuartii - S. anginosus		R-SD10241W

Vector-borne Disease

(Research Use Only)

Novaplex™ Tick-borne Disease Assay	- B. mayonii - B. burgdorferi sensu stricto - B. duncani	- B. microti - B. miyamotoi - Rickettsia spp.	- A. phagocytophilum - E. ewingii - E. chaffeensis		R-TD9900W R-TD9900Y
Novaplex™ Tick-borne Disease Expanded Assay*	- Rickettsia spp. - B. miyamotoi - Ehrlichia spp.	- A. Phagocytophilum - Babesia spp. - Coxiella burnetii	- Bartonella spp. - Tick-borne encephalitis virus - B. burdorferi sensu lato complex	- Whole blood	-
Novaplex™ Malaria Assay*	- Plasmodium vivax - Plasmodium ovale	- Plasmodium falciparum - Plasmodium malariae	- Plasmodium knowlesi	- Whole blood	-
Novaplex™ Tropical fever virus Assay	- Dengue virus - Chikungunya virus	- Zika virus - West Nile virus		-	R-TF10207Y R-TF10208W

Monkeypox

(Research Use Only)

Novaplex™ MPXV Assay	- Monkeypox virus (MPXV)		-	R-PX10325Z R-PX10324X
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Streptococcal Infection

(Research Use Only)

Novaplex™ GBS Typing Assay	- GBS screening - GBS serotype Ia - GBS serotype Ib	- GBS serotype II - GBS serotype III - GBS serotype IV	- GBS serotype VI - GBS serotype V - Others (GBS serotype VII, VIII, IX)	- Bacterial colony	R-SD10256Z R-SD10255X
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Fungal Infection

(Research Use Only)

Novaplex™ Dermatophyte Assay	- T. mentagrophytes complex - T. rubrum complex - T. tonsurans	- Microsporum spp. - E. floccosum - C. albicans	- Skin - Nail - Hair	R-DE10261X
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* Upcoming

Seegene high multiplex real-time PCR assays

Syndromic tests using high multiplex PCR technology

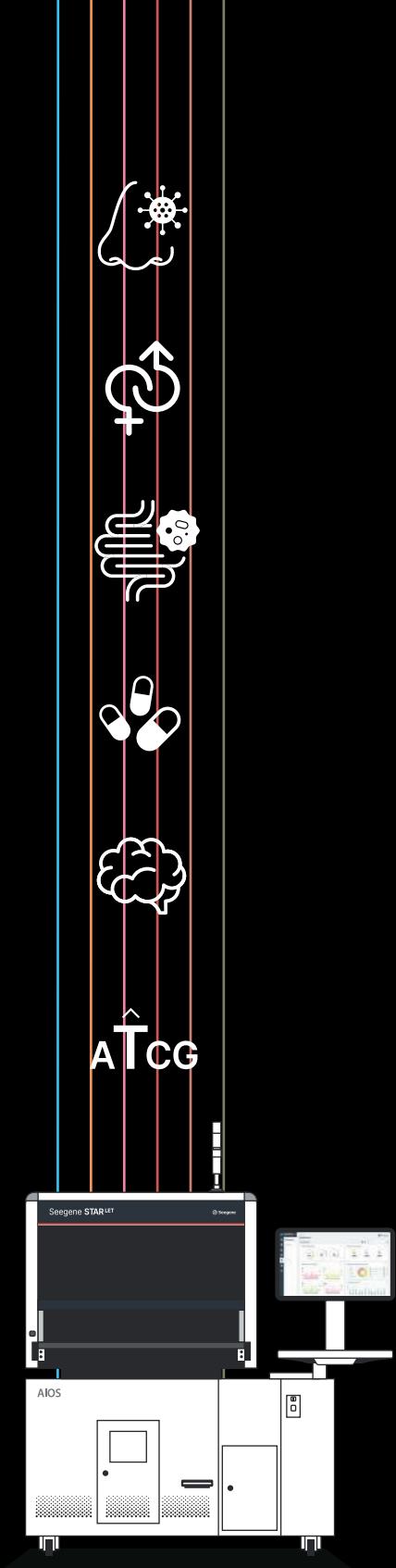
Detect and identify causative pathogens of infectious diseases
that show similar symptoms

Cover all fields of molecular diagnostics

Expanded MDx product lineup includes respiratory, sexually transmitted,
gastrointestinal infections, antimicrobial resistance, and more

Compatible with Seegene's automation system

All assays are compatible with one streamlined system
that provides a fully automated workflow



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