

Seegene product pipeline

 Allplex™

2019-nCoV Assay
(FDA EUA SARS-CoV-2 Assay)

 Novaplex™ *

Monkeypox
SARS-CoV-2 & Variants

Respiratory Infection

Gastrointestinal Infection

Sexually Transmitted Infection

Urinary Tract Infection

Hospital Acquired Infection

Tuberculosis

Human Papillomavirus Infection

Meningitis

Streptococcal Infection

Vector-borne Disease

Fungal Infection

Genetics

* For Research Use Only.
Not for Use in Diagnostic Procedures.

All molecular assays
in one streamlined automation system

Seegene high multiplex real-time PCR products

SARS-CoV-2 & Variants

- 3 Allplex™ 2019-nCoV Assay (FDA EUA)
- 6 Novaplex™ SARS-CoV-2/FluA/FluB/RSV Assay
- 15 Novaplex™ SARS-CoV-2 Variants Assays
Variants

Respiratory Infection

- 3 Novaplex™ FluA/FluB/RSV Assay
- 9 Novaplex™ RV Master Assay
- 7 Novaplex™ Respiratory Panel 1A
- 7 Novaplex™ Respiratory Panel 2
- 5 Novaplex™ Respiratory Panel 3
- 7 Novaplex™ PneumoBacter Assay

Tuberculosis

- 26 Novaplex™ II MTB/MDR Detection**
- 14 Novaplex™ II MTB/XDR Detection**

Gastrointestinal Infection

- 6 Novaplex™ GI-Virus Assay
- 7 Novaplex™ GI-Bacteria(I) Assay
- 6 Novaplex™ GI-Bacteria(II) Assay
- 6 Novaplex™ GI-Parasite Assay
- 9 Novaplex™ GI-Helminth(I) Assay

Meningitis

- 18 Novaplex™ Meningitis Panel Assays*

Genetics

- 27 Novaplex™ II β -Thalassemia Assay
- 6 Novaplex™ II Thrombosis SNP Panel Assay

Fungal Infection

- 6 Novaplex™ Dermatophyte Assay

All Novaplex™ products are for research use only and not for diagnostic procedures.
The numbers indicated here are the number of targets for each assay.

Urinary Tract Infection

- 9 Novaplex™ Urinary Tract Infection Panel 1
- 9 Novaplex™ Urinary Tract Infection Panel 2
- 9 Novaplex™ Urinary Tract Infection Panel 3

Hospital Acquired Infection

- 8 Novaplex™ Entero-DR Assay

Vector-borne Disease

- 8 Novaplex™ Tick-borne Disease Assay
- 5 Novaplex™ Malaria Assay*
- 4 Novaplex™ Tropical fever virus Assay

Streptococcal Infection

- 9 Novaplex™ GBS Typing Assay

Monkeypox

- 1 Novaplex™ MPXV Assay

Human Papillomavirus Infection

- 28 Novaplex™ II HPV28 Detection
- 14 Novaplex™ II HPV HR Detection

Sexually Transmitted Infection

- 7 Novaplex™ STI Essential Assay
- 7 Novaplex™ Genital ulcer Assay
- 7 Novaplex™ Candidiasis Assay
- 7 Novaplex™ Bacterial Vaginosis Assay
- 7 Novaplex™ Aerobic Vaginitis Assay
- 7 Novaplex™ MG & AziR Assay
- 7 Novaplex™ MG & MoxiR Assay*
- 5 Novaplex™ NG & DR Assay*
- 4 Novaplex™ CT/NG/MG/TV Assay

**Streamlined
automation
system**

* To be released

** Currently not available in the U.S.

SARS-CoV-2 & Variants

| Product | Analytes | Cat. No. |
|---|--|---|
| Allplex™ 2019-nCoV Assay (FDA EUA) | - <i>Sarbecovirus</i> (E gene) - SARS-CoV-2 (RdRP gene) | - SARS-CoV-2 (N gene) RP10252W |
| Novaplex™ 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 R-RV10259W |
| Novaplex™ SARS-CoV-2 Variants I Assay | - SARS-CoV-2 (RdRP gene) | - SARS-CoV-2 (S gene) variants: • HV69/70 deletion, E484K, N501Y R-RV10286W |
| Novaplex™ SARS-CoV-2 Variants II Assay | - SARS-CoV-2 (S gene) variants: • L452R, W152C, K417N, K417T | R-RV10305W |
| Novaplex™ SARS-CoV-2 Variants IV Assay | - SARS-CoV-2 (S gene) variants: • L452R, P681R, K417N | R-RV10315W |
| Novaplex™ SARS-CoV-2 Variants V Assay | - SARS-CoV-2 (S gene) variants: • L452R, L452Q, F490S, P681R | R-RV10341W |
| Novaplex™ SARS-CoV-2 Variants VII Assay | - SARS-CoV-2 (RdRP gene) | - SARS-CoV-2 (S gene) variants: • HV69/70 deletion, E484A, N501Y R-RV10360W |

Respiratory Infection

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|--|--|---|---|
| Novaplex™ 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 | R-RV10347W |
| Novaplex™ RV Master Assay | - SARS-CoV-2 (N gene) - SARS-CoV-2 (S gene) - SARS-CoV-2 (RdRP gene) | - Flu A - Flu B - Adenovirus - Metapneumovirus | - PIV - RSV - HRV R-RV10365W |
| Novaplex™ Respiratory Panel 1A | - Flu A - Flu B | - Flu A-H1 - Flu A-H1pdm09 - Flu A-H3 | - RSV A - RSV B R-RP9702W |
| Novaplex™ Respiratory Panel2 | - Adenovirus - Enterovirus - Metapneumovirus | - PIV 1 - PIV 2 | - PIV 3 - PIV 4 R-RP9802W |
| Novaplex™ Respiratory Panel 3 | - Bocavirus - Rhinovirus | - CoV 229E - CoV NL63 | - CoV OC43 R-RP9601W |
| Novaplex™ PneumoBacter Assay | - <i>M. pneumoniae</i> - <i>S. pneumoniae</i> - <i>C. pneumoniae</i> | - <i>B. pertussis</i> - <i>L. pneumophila</i> | - <i>B. parapertussis</i> - <i>H. influenzae</i> R-PB10176W |

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Tuberculosis

| Product | Analytes | | | Cat. No. |
|--|----------|-----------------------------|--|-----------|
| Novaplex™ II MTB/MDR Detection** | - MTB | - Multi-drug resistance | • Isoniazid-resistance (7 mutations) • Rifampicin-resistance (18 mutations) | R-TB7301Y |
| Novaplex™ II MTB/XDR Detection** | - MTB | - Extensive drug resistance | • Fluoroquinolone resistance (7 mutations) • Injectable drug resistance (6 mutations) | R-TB7302Y |

Gastrointestinal Infection

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|--|---|--|---|------------|
| Novaplex™ GI-Virus Assay | - Norovirus GI - Norovirus GII | - Rotavirus - Adenovirus | - Astrovirus - Sapovirus | R-GI9701W |
| Novaplex™ GI-Bacteria (I) Assay | - <i>Campylobacter</i> spp. - <i>Vibrio</i> spp. - <i>Clostridium difficile</i> toxin B | - <i>Shigella</i> spp. / EIEC - <i>Salmonella</i> spp. | - <i>Y. enterocolitica</i> - <i>Aeromonas</i> spp. | R-GI9801W |
| Novaplex™ GI-Bacteria (II) Assay | - <i>E. coli</i> O157 - <i>CDhyper</i> | - STEC (<i>stx1/2</i>) - EAEC (<i>aggR</i>) | - ETEC (<i>lt/st</i>) - EPEC (<i>eaeA</i>) | R-GI9702W |
| Novaplex™ GI-Parasite Assay | - <i>G. lamblia</i> - <i>B. hominis</i> | - <i>E. histolytica</i> - <i>D. fragilis</i> | - <i>Cryptosporidium</i> spp. - <i>C. cayetanensis</i> | R-GI9703W |
| Novaplex™ GI-Helminth(I) Assay | - <i>Enterocytozoon</i> spp. - <i>Encephalitozoon</i> spp. - <i>Strongyloides</i> spp. - <i>Hymenolepis</i> spp. | - <i>Ascaris</i> spp. - <i>Taenia</i> spp. - <i>T. trichiura</i> | - <i>Ancylostoma</i> spp. - <i>E. vermicularis</i> - <i>N. americanus</i> | R-GI10191W |

Meningitis

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|--|--|---|--|---|
| Novaplex™ Meningitis-V1 Assay* | - Epstein-Barr virus - Human herpes virus 6 - Human herpes virus 7 | - HSV1 - HSV2 - Varicella-zoster virus | - Cytomegalovirus | - |
| Novaplex™ Meningitis-V2 Assay* | - Parvovirus B19 - Mumps virus | - Adenovirus - Enterovirus | - Parechovirus | - |
| Novaplex™ Meningitis-B Assay* | - <i>N. meningitidis</i> - Group B <i>Streptococcus</i> | - <i>E.coli</i> K1 - <i>L. monocytogenes</i> | - <i>H. influenzae</i> - <i>S. pneumoniae</i> | - |

Genetics

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|---|---|---|---|------------------------------------|------------|------------|
| Novaplex™ II β-Thalassemia Assay | - IVS 1-1(G>T) - 619bp deletion - IVS 1-5(G>C) | - CD15(G>A) - FS41/42(-TTCT) - HbS | - FS8/9(+G) - -90(C>T) - CD16(-C) | - HbE - CD15(-T) - CD30(G>C) | - -28(A>G) | R-TH10158X |
| Novaplex™ II Thrombosis SNP Panel Assay | - Factor II - G20210A - Factor V - R506Q - MTHFR - A1298C | - Factor V - H1299R - Factor V - Y1702C - MTHFR - C677T | | | | R-TS7600W |

Monkeypox

| Product | Analytes | Cat. No. |
|-------------------------|--------------------------|--------------------------|
| Novaplex™ MPXV Assay | - Monkeypox virus (MPXV) | R-PX10325Z R-PX10324X |

Human Papillomavirus Infection

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|----------------------------------|---|---|-----------|
| Novaplex™ II 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 | R-HP7S00W |
| Novaplex™ II HPV HR Detection | - 14 High-risk genotypes : 16, 18, 31, 33, 35, 39, 45, 51, 52, 56, 58, 59, 66, 68 | | R-HP7E00W |

Sexually Transmitted Infection

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|--|--|---|--|----------------------|------------|
| Novaplex™ STI Essential Assay | - <i>C. trachomatis</i> - <i>T. vaginalis</i> - <i>N. gonorrhoeae</i> | - <i>U. urealyticum</i> - <i>M. genitalium</i> | - <i>U. parvum</i> - <i>M. hominis</i> | R-SD9801W | |
| Novaplex™ Genital ulcer Assay | - LGV - <i>T. pallidum</i> | - HSV1 - HSV2 | - CMV - VZV - <i>H. ducreyi</i> | R-SD9802W | |
| Novaplex™ Candidiasis Assay | - <i>C. albicans</i> - <i>C. krusei</i> | - <i>C. lusitaniae</i> - <i>C. tropicalis</i> | - <i>C. dubliniensis</i> - <i>C. parapsilosis</i> - <i>C. glabrata</i> | R-SD9803W | |
| Novaplex™ Bacterial Vaginosis Assay | - <i>G. vaginalis</i> - <i>Mobiluncus</i> spp. - <i>A. vaginae</i> | - <i>B. fragilis</i> - <i>Megasphaera</i> type 1 - BV-associated bacteria 2 | - <i>Lactobacillus</i> spp. | R-SD9804W | |
| Novaplex™ Aerobic Vaginosis Assay | - <i>Escherichia coli</i> - <i>Enterococcus faecalis</i> - <i>Streptococcus pyogenes</i> | - <i>Lactobacillus reuteri/rhamnosus</i> - <i>Staphylococcus aureus</i> - <i>Streptococcus agalactiae</i> | - <i>Lactobacillus</i> spp. | R-SD9700W | |
| Novaplex™ MG & AziR Assay | - <i>M. genitalium</i> | - A2058G - A2058T | - A2058C - A2059G | - A2059T - A2059C | R-SD1017W |
| Novaplex™ MG & MoxiR Assay* | - <i>M. genitalium</i> | - A247C - G248T | - G248A - G259A | - G259T - G259C | - |
| Novaplex™ NG & DR Assay* | - <i>N. gonorrhoeae</i> | - A2059G | - C2611T | - S91F | - |
| Novaplex™ CT/NG/MG/TV Assay | - <i>C. trachomatis</i> - <i>M. genitalium</i> | - <i>N. gonorrhoeae</i> - <i>T. vaginalis</i> | | | R-SD10217W |

Hospital Acquired Infection

| Product | Analytes | | | Cat. No. |
|-----------------------------|--|---------------------------|-------------------|-----------|
| Novaplex™ Enter-DR Assay | - CPE • KPC • NDM • OXA-48 • VIM • IMP | - VRE • VanA • VanB | - ESBL • CTX-M | R-CR9700W |

Urinary Tract Infection

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|--|--|---|--|------------|
| Novaplex™ Urinary Tract Infection 1 | - <i>E. cloacae</i> complex - <i>E. coli</i> - <i>K. aerogenes</i> | - <i>K. oxytoca</i> - <i>K. pneumoniae</i> - <i>P. mirabilis</i> | - <i>P. vulgaris</i> - <i>P. aeruginosa</i> - <i>S. marcescens</i> | R-SD10228W |
| Novaplex™ Urinary Tract Infection 2 | - <i>A. schaalii</i> - <i>E. faecium</i> - <i>E. faecalis</i> | - <i>C. albicans</i> - <i>Candida</i> others - <i>S. agalactiae</i> | - <i>S. epidermidis</i> - <i>S. saprophyticus</i> - <i>S. aureus</i> | R-SD10240W |
| Novaplex™ Urinary Tract Infection 3 | - <i>A. baumannii</i> - <i>A. urinae</i> - <i>C. freundii</i> | - <i>C. koseri</i> - <i>C. urealyticum</i> - <i>M. morgani</i> | - <i>P. agglomerans</i> - <i>P. stuartii</i> - <i>S. anginosus</i> | R-SD10241W |

Fungal Infection

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|---------------------------------|---|---|--|------------|
| Novaplex™ Dermatophyte Assay | - <i>T. mentagrophytes</i> complex - <i>T. rubrum</i> complex - <i>T. tonsurans</i> | - <i>Microsporium</i> spp. - <i>E. floccosum</i> - <i>C. albicans</i> | | R-DE10261X |
|---------------------------------|---|---|--|------------|

Vector-borne Disease

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|---|--|--|---|------------|
| Novaplex™ Tick-borne Disease Assay | - <i>B. mayonii</i> - <i>B. burgdoferi sensu stricto</i> - <i>B. duncani</i> | - <i>B. microti</i> - <i>B. miyamotoi</i> - <i>Rickettsia</i> spp. | - <i>A. phagocytophilum</i> - <i>E. ewingii</i> - <i>E. chaffeensis</i> | R-TD9900W |
| Novaplex™ Malaria Assay* | - <i>Plasmodium vivax</i> - <i>Plasmodium ovale</i> | - <i>Plasmodium falciparum</i> - <i>Plasmodium malariae</i> | - <i>Plasmodium knowlesi</i> | - |
| Novaplex™ Tropical fever virus Assay | - Dengue virus - Chikungunya virus | - Zika virus - West Nile virus | | R-TF10208W |

Streptococcal Infection

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|-------------------------------|---|--|--|--------------------------|
| 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) | R-SD10256Z R-SD10255X |
|-------------------------------|---|--|--|--------------------------|



ATCG



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