SIGNALCHEM
DIAGNOSTICS

# 2026 PRODUCT CATALOG

# About Us

**SignalChem Diagnostics**, a subsidiary of SignalChem Lifesciences Corporation, is a trusted leader in producing effective, reliable and high-quality raw materials for in vitro diagnostics (IVD) manufacturing. Our constantly expanding portfolio includes allergens, clinical chemistry reagents, CRISPR enzymes, isothermal amplification enzymes, and other essential raw materials for diverse applications. All our products undergo rigorous testing to ensure exceptional performance, consistent quality, lot-to-lot reliability, and a secure supply.

In addition to our extensive product offerings, we provide custom development and manufacturing services, tailoring raw materials to meet the exact specifications of our customers. With an ISO-accredited, state-of-the-art facility designed for scalability, we are well-equipped for scale production to support IVD manufacturing projects.

At SignalChem Diagnostics, we combine innovative research, advanced production techniques, and stringent quality control to deliver reagents that set the standard for excellence in the IVD industry.

**Partner with us to power your diagnostic solutions.**

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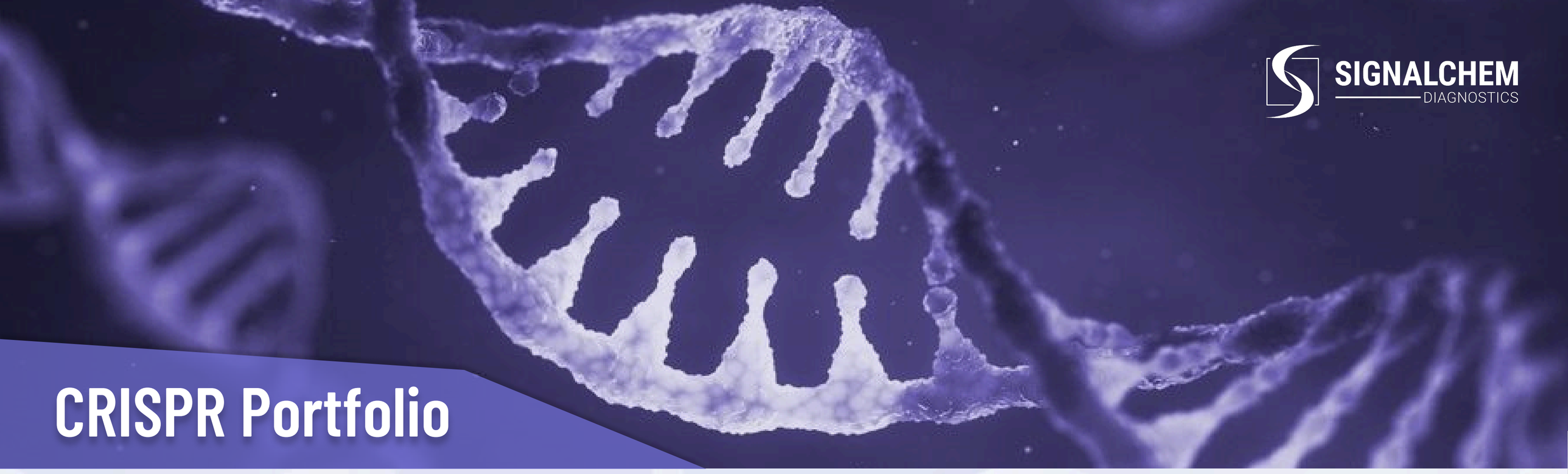
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# Reagents



# CRISPR Portfolio

SignalChem Diagnostics' CRISPR Portfolio comprises Cas9, Cas12, Cas13, and Csm6 nucleases optimized for nucleic acid detection purposes. Our high-purity recombinant proteins are RNase- and DNase-free, rigorously tested, and functionally verified. To best support your research, we also provide glycerol-free versions of select enzymes and custom gRNA and protein services.

## CRISPR Enzymes

| Name | Catalog # | Source Organism | Host | Sequence |
|---|---|---|---|---|
| AapCas12b | C12B1-E311U | Alicyclobacillus acidiphilus | E.coli | Full length |
| AsCas12a | CS12A-E311H | Acidaminococcus sp. | E.coli | Full length |
| CcaCas13b | CS13B-E311H | Capnocytophaga canimorsus | E.coli | Full length |
| EiCsm6 | CS06-E312H | Enterococcus italicus | E.coli | Full length |
| EsCas13d | ES13D-E31H | Eubacterium siraeum | E.coli | Full length |
| FnCas12a | CF12A-E311H | Francisella tularensis | E.coli | Full length |
| FnCas12a, Glycerol-Free | CF12A-E311HB | Francisella tularensis | E.coli | Full length |
| LbCas12a, GST-Tagged | C12CR-E241G | Lachnospiraceae | E.coli | Full length |
| LbCas12a, His-Tagged | C12CR-E241H | Lachnospiraceae | E.coli | Full length |
| LbuCas13a | CS13A-E322U | Leptotrichia buccalis | E.coli | Full length |
| LbuCas13a, Glycerol-Free | CS13A-E322UB | Leptotrichia buccalis | E.coli | Full length |
| LsCsm6 | LS01-E31H | Ligilactobacillus salivarius | E.coli | Full length |
| LwCas13a | CS13A-E321H | Leptotrichia wadei | E.coli | Full length |
| PsmCas13b | CS13B-E312H | Prevotella sp. | E.coli | Full length |
| SpCas9 (D10A)-NLS | CS09N-E331H | Streptococcus pyogenes | E.coli | Full length |
| SpCas9 (D10A, H840A)-NLS | CS09N-E333H | Streptococcus pyogenes | E.coli | Full length |
| SpCas9 (H840A)-NLS | CS09N-E332H | Streptococcus pyogenes | E.coli | Full length |
| SpCas9 | CS09-E311H | Streptococcus pyogenes | E.coli | Full length |
| SpCas9-NLS | CS09N-E312H | Streptococcus pyogenes | E.coli | Full length |
| SpCas9-NLS, Glycerol-Free | CS09N-E312HB | Streptococcus pyogenes | E.coli | Full length |
| TccCas13a | CS13A-E314H | Thermoclostridium caenicola | E.coli | Full length |
| TtCsm6 | CS06-E311H | Thermus thermophilus | E.coli | Full length |

# CRISPR Portfolio

## Reagents

| Name | Catalog # | Application |
|---|---|---|
| CAS System Nucleic Acid Detection Test Strip | TS01-CS89 | Qualitative detection of probe cleavage |
| Cas12 Reaction Buffer, 10X | CS12-09 | Reaction buffer for Cas12 activity assays |
| Cas12 ssDNA Reporter (FAM/BHQ) | CS12-57 | DNA probe for Cas12 activity assays |
| Cas12 ssDNA Reporter (FAM/Biotin) | CS12-58 | DNA probe for Cas12 activity assays |
| Cas13 Reaction Buffer II, 10X | CS13-09B | Reaction buffer for Cas13 activity assays |
| Cas13 Reaction Buffer, 10X | CS13-09 | Reaction buffer for Cas13 activity assays |
| Cas13 ssRNA Reporter (FAM/BHQ) | CS13-57 | RNA probe for Cas13 activity assays |
| Cas13 ssRNA Reporter (FAM/Biotin) | CS13-58 | RNA probe for Cas13 activity assays |
| Cas13 Storage Buffer, 1X | CS13-19 | Storage buffer for Cas13 enzymes |
| Cas9 Reaction Buffer, 10X | CS09-09 | Reaction buffer for Cas9 enzyme reactions |

## Kits

| Name | Catalog # | Components |
|---|---|---|
| Cas12 (AapCas12b) Kit | C12B1-U834 | Protein, buffer, reporter (optional), gRNA (optional) |
| Cas12 (LbCpf1, GST) Kit | C12CR-G834 | Protein, buffer, reporter (optional), gRNA (optional) |
| Cas12 (LbCpf1, His) Kit | C12CR-H834 | Protein, buffer, reporter (optional), gRNA (optional) |
| Cas13 (LbuCas13a) Kit | CS13A-U834 | Protein, buffer, reporter (optional), gRNA (optional) |
| Cas13 [LwCas13a (LwC2c2)] Kit | CS13A-H834 | Protein, buffer, reporter (optional), gRNA (optional) |

## Custom Services

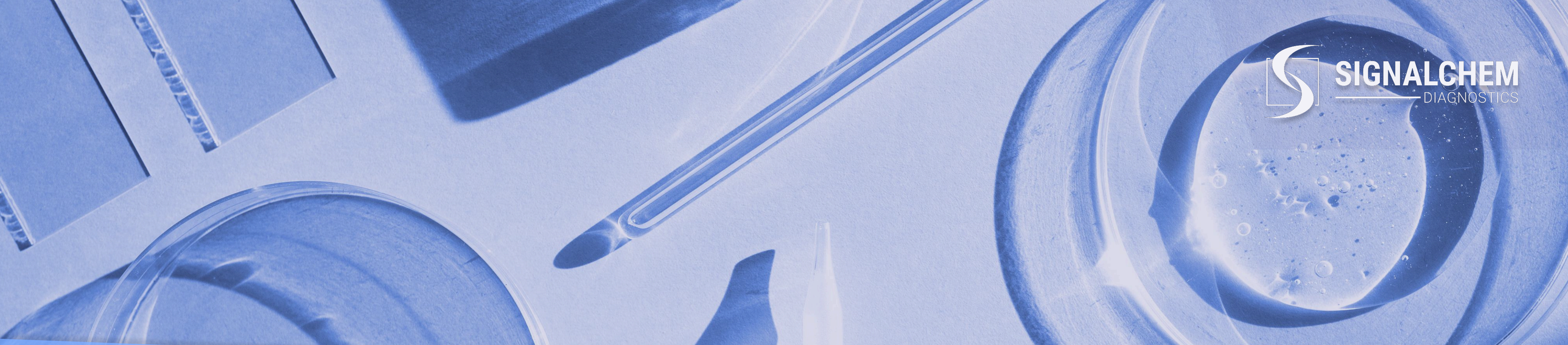
We offer custom gRNA synthesis and design services, custom protein expression, catalog product modifications, ssDNA/ssRNA probe customization, assay development, and more. Our protein services include but are not limited to:

- Custom protein production
- Concentration change
- Formulation change
- Tag change or removal
- Lyophilization
- Sterile filtration
- Protein fusion
- Expression host change

To learn more, please contact us at info@signalchemdx.com.

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# Clinical Chemistry Portfolio

SignalChem Diagnostics offers a range of diagnostic-grade recombinant enzymes for key clinical chemistry reactions. The proteins from this portfolio were manufactured in ISO 9001-certified facility and optimized for high activity in diagnostic assays. They are suitable for applications in manufacturing and clinical analysis. Additionally, a selection of analogous research-grade enzymes is available.

## Diagnostic-Grade Enzymes

| Name | Catalog # | Enzyme No. | Grade | Activity |
|---|---|---|---|---|
| Cholesterol Oxidase | CXO1D1-E311H | EC 1.1.3.6 | Diagnostic Reagent | 12 U/mg-solid or more |
| Colipase | CLO1D1-E311H | NA | Diagnostic Reagent | NA |
| Creatinine Amidohydrolase | CRO1D1-E311H | EC 3.5.2.10 | Diagnostic Reagent | 300 U/mg-solid or more |
| Creatine Amidinohydrolase | CRO2D1-E311H | EC 3.5.3.3 | Diagnostic Reagent | 4U/mg-solid or more |
| Cystathionine-β-Lyase | CYO2D1-E311H | EC 4.4.1.13 | Diagnostic Reagent | 30 U/mg-solid or more |
| Cystathionine-β-Synthase | CYO1D1-E311H | EC 4.2.1.22 | Diagnostic Reagent | 4.0 U/mg-solid or more |
| D-3-Hydroxybutyrate Dehydrogenase | HDO1D1-E311H | EC 1.1.1.30 | Diagnostic Reagent | 50 U/mg-solid or more |
| D-3-Hydroxybutyrate Dehydrogenase | HDO1D2-E311H | EC 1.1.1.30 | Diagnostic Reagent | 500 U/mg-solid or more |
| D-Lactate Dehydrogenase | LDO1D1-E311H | EC 1.1.1.28 | Diagnostic Reagent | 150 U/mg-solid or more |
| Diaphorase | DAO1D1-E311H | EC 1.6.5.2 | Diagnostic Reagent | 100 U/mg-solid or more |
| Glucose Oxidase | GXO1D1-E311H | EC 1.1.3.4 | Diagnostic Reagent | 70 U/mg-solid or more |
| Glucose-6-Phosphate Dehydrogenase | GDO3D1-E311H | EC 1.1.1.49 | Diagnostic Reagent | 280 U/mg-solid or more |
| Glutamate Dehydrogenase (NAD-Dependent) | GDO4D1-E311H | EC 1.4.1.2 | Diagnostic Reagent | 80 U/mg-solid or more |
| Glycerol Dehydrogenase | GDO1D1-E311H | EC 1.1.1.6 | Diagnostic Reagent | 35 U/mg-solid or more |
| Glycerol Kinase | GKO1D1-E311H | EC 2.7.1.30 | Diagnostic Reagent | 30 U/mg-solid or more |
| Hexokinase | HKO1D1-E311H | EC 2.7.1.1 | Diagnostic Reagent | 150 U/mg-solid or more |
| Lactate Oxidase | LXO1D1-E311H | EC 1.13.12.4 | Diagnostic Reagent | 80 U/mg-solid or more |
| Malate Dehydrogenase | MDO1D1-E311H | EC 1.1.1.37 | Diagnostic Reagent | 40 U/mg-solid or more |
| N-Acetylneuraminic Acid Aldolase | AAO1D1-E311H | EC 4.1.3.3 | Diagnostic Reagent | 15 U/mg-solid or more |
| Peroxidase | PERO1D1-E51A | EC 1.11.1.7 | Diagnostic Reagent | 180 U/mg-solid or more |
| Peroxidase | PERO1-E52A | EC 1.11.1.7 | Diagnostic Reagent | 180 U/mg-solid or more |

# Clinical Chemistry Portfolio

## Diagnostic-Grade Enzymes (Continued)

| Name | Catalog # | Enzyme No. | Grade | Activity |
|---|---|---|---|---|
| Purine-Nucleoside Phosphorylase | PP01D1-E311H | EC 2.4.2.1 | Diagnostic Reagent | 30 U/mg-solid or more |
| Sarcosine Oxidase | SX01D1-E311H | EC 1.5.3.1 | Diagnostic Reagent | 10 U/mg-solid or more |
| Uricase | UR01D1-E311H | EC 1.7.3.3 | Diagnostic Reagent | 4 U/mg-solid or more |

## Research-Grade Enzymes

| Name | Catalog # | Enzyme No. | Grade | Activity |
|---|---|---|---|---|
| Glucose-6-Phosphate Dehydrogenase | GD03D-E311H | EC 1.1.1.49 | Research Use Only | ≥200 U / ≥1000 U |
| Hexokinase | HK01D-E311H | EC 2.7.1.1 | Research Use Only | ≥500 U / ≥1000 U |
| D-Lactate Dehydrogenase | LD01D-E311H | EC 1.1.1.28 | Research Use Only | ≥500 U / ≥2500 U |
| Malate Dehydrogenase | MD01D-E311H | EC 1.1.1.37 | Research Use Only | ≥500 U / ≥2500 U |

## Cofactors

| Name | Catalog # | Cas# | Molecular Formula |
|---|---|---|---|
| Nicotinamide Adenine Dinucleotide (NAD) | NA01-C59 | 53-84-9 | C21H27N7O14P2 |
| Nicotinamide Adenine Dinucleotide Phosphate Disodium Salt (NADP-Na2) | NN02-C59 | 24292-60-2 | C21H26N7O17P3 Na2 |
| Nicotinamide Adenine Dinucleotide Phosphate Monosodium Salt (NADP-Na) | NN01-C59 | 1184-16-3 | C21H27N7O17P3 Na |
| Nicotinamide Adenine Dinucleotide Phosphate Reduced Form (NADPH) tetrasodium salt | NR01-C59 | 2646-71-1 | C21H26N7Na4O17P3 |
| Nicotinamide Adenine Dinucleotide Reduced Form (NADH) disodium salt | NH01-C59 | 606-68-8 | C21H27N7O14P2 Na2 |
| β-Thionicotinamide Adenine Dinucleotide oxidized form free acid (β-Thio-NAD) | TN01-C59 | 4090-29-3 | C21H27N7O13SP2 |

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# Immunodiagnostics

SignalChem Diagnostics provides a comprehensive selection of high-purity recombinant and native allergens from over 50 animal, plant, and fungal species, as well as an extensive line of high-purity autoimmune disease antigens. Aside from E. coli, we also use N. benthamiana (tobacco) expression system for recombinant plant allergen production to preserve their post-translational modifications. The high purity is achieved with the combination of affinity and ion exchange chromatography.

## Allergens

| Name | Catalog # | Source Organism | Host | Tag Type | UniProt # |
|---|---|---|---|---|---|
| Act c 8 | AC08-A31H | Actinidia chinensis | E.coli | His | D1YSM4 |
| Act d 8 | AD08-A921H | Actinidia deliciosa | E.coli | His | D1YSM5 |
| Act d 9 | AD09-A32H | Actinidia deliciosa | E.coli | His | C0HL99 |
| Aln g 1 | AG01-A921H | Alnus glutinosa | E.coli | His | P38948 |
| Aln g 1 | AG01-A922H | Alnus glutinosa | N. benthamiana | His | P38948 |
| Aln g 4 | AG04-A32H | Alnus glutinosa | E.coli | His | NA |
| Alt a 1 | AL01-A931H | Alternaria alternata | E.coli | His | Q8NJ79 |
| Ama r 2 | AR01-A32H | Amaranthus retroflexus | E.coli | His | C3W2D7 |
| Amb a 1 | AA01-A22H | Ambrosia artemisiifolia | E.coli | His | P27759 |
| Amb a 1A | AA1A-A22H | Ambrosia artemisiifolia | E.coli | His | P27759 |
| Amb a 6 | AA01-A32U | Ambrosia artemisiifolia | E.coli | Tag-free | 004004 |
| Amb a 8 | AA08-A32H | Ambrosia artemisiifolia | E.coli | His | AY894660 |
| Amb a 9 | AA09-A32H | Ambrosia artemisiifolia | E.coli | His | Q2KN27 |
| Amb a 11 | AA11-A22H | Ambrosia artemisiifolia | E.coli | His | V5LU01 |
| Amb t 8 | AT08-A32H | Ambrosia trifida | E.coli | His | NA |
| Ana c 1 | AC01-A922H | Ananas comosus | N. benthamiana | His | Q94JN2 |
| Ana c 1 | AC01-A921H | Ananas comosus | E.coli | His | Q94JN2 |
| Ana o 1 (N131) | AN01-A921H | Anacardium occidentale | E.coli | His | Q8L5L5 |
| Api g 1 | AP01-A921H | Apium graveolens | E.coli | His | P49372 |
| Api g 4 | AP04-A32H | Apium graveolens | E. coli | His | Q9XF37 |

# Immunodiagnostics

## Allergens

| Name | Catalog # | Source Organism | Host | Tag Type | UniProt # |
|---|---|---|---|---|---|
| Ara h 1 | AH01-A9210 | Arachis hypogaea | Native protein | Tag-free | P43238 |
| Ara h 1 | AH01-A22H | Arachis hypogaea | E. coli | His | P43238 |
| Ara h 2 | AH02-A9210 | Arachis hypogaea | Native protein | Tag-free | Q6PSU2-1 |
| Ara h 3 | AH03-A9210 | Arachis hypogaea | Native protein | Tag-free | O82580 |
| Ara h 3 | AH03-A22H | Arachis hypogaea | E. coli | His | O82580 |
| Ara h 3.01 | AH301-A22H | Arachis hypogaea | E. coli | His | O82580 |
| Ara h 6 | AH06-A22H | Arachis hypogaea | Yeast cells | His | Q647G9 |
| Ara h 9 | AH09-A22H | Arachis hypogaea | Yeast cells | His | B6CEX8 |
| Ara h 9.0101 | AH901-A22H | Arachis hypogaea | Yeast cells | His | B6CEX8 |
| Art an 3 | AA03-A32H | Artemisia annua | E. coli | His | NA |
| Art an 4 | AA04-A32H | Artemisia annua | E. coli | His | NA |
| Art ar 2 | AA01-A32H | Artemisia argyi | N. benthamiana | His | A0A2L1DGQ3 |
| Art la 2 | AL02-A921H | Artemisia lavandulifolia | N. benthamiana | His | AVD29826.1 |
| Art v 1 | AV01-A921H | Artemisia vulgaris | N. benthamiana | His | Q84ZX5 |
| Art v 3 | AV03-A921H | Artemisia vulgaris | N. benthamiana | His | C4MGG9 |
| Art v 3.02 | AV02-A921H | Artemisia vulgaris | E.coli | His | C4MGG9 |
| Art v 4 | AV04-A32H | Artemisia vulgaris | N. benthamiana | His | Q8H2C9 |
| Art v 4 | AV04-A31H | Artemisia vulgaris | E. coli | His | Q8H2C9 |
| Art v 5 | AV05-A921H | Artemisia vulgaris | E.coli | His | A0PJ17 |
| Asp f 1 | AF01-A931H | Aspergillus fumigatus | E.coli | His | P67875 |
| Asp f 1 | AF01-A26H | Aspergillus fumigatus | Mammalian cells | His | P67875 |
| Asp f 2 | AF02-A931H | Aspergillus fumigatus | E.coli | His | P79017 |
| Asp f 3 | AF03-A931H | Aspergillus fumigatus | E.coli | His | O43099 |
| Asp f 5 | AF05-A931H | Aspergillus fumigatus | E.coli | His | P46075 |
| Asp f 6 | AF06-A931H | Aspergillus fumigatus | E.coli | His | Q92450 |
| Asp f 9 | AF09-A931H | Aspergillus fumigatus | E.coli | His | Q8J0P4 |
| Asp f 9 | AF09-A26H | Aspergillus fumigatus | Mammalian cells | His | Q8J0P4 |
| Asp f 15 | AF15-A26H | Aspergillus fumigatus | E.coli | His | O60022 |
| Asp f 22 | AF04-A36H | Aspergillus fumigatus | E.coli | His | Q96X30 |

# Immunodiagnostics

## Allergens

| Name | Catalog # | Source Organism | Host | Tag Type | UniProt # |
|---|---|---|---|---|---|
| Asp f 24 | AF24-A26H | Aspergillus fumigatus | E.coli | His | N/A |
| Asp f 27 | AF01-A36H | Aspergillus fumigatus | E.coli | His | Q4WWX5 |
| Asp f 28 | AF03-A936H | Aspergillus fumigatus | E.coli | His | Q1RQJ1 |
| Ber e 1 | BE01-A22H | Bertholletia excelsa | E.coli | His | P04403 |
| Bet v 1 | BV01-A921H | Betula pendula | E.coli | His | P15494 |
| Bet v 1, Biotinylated | BV01-A921BH | Betula pendula | E.coli | His | P15494 |
| Bet v 2 | BV02-A921H | Betula pendula | E.coli | His | P25816 |
| Bet v 4 | BV04-A921H | Betula pendula | E.coli | His | Q39419 |
| Bla g 1 | BG01-A951H | Blattella germanica | E.coli | His | Q9UAM5 |
| Bla g 1 | BG01-A25H | Blattella germanica | Yeast cells | His | Q9UAM5 |
| Bla g 2 | BG02-A25H1 | Blattella germanica | Sf9 insect cells | His | P54958 |
| Bla g 2 | BG02-A25H | Blattella germanica | Yeast cells | His | P54958 |
| Bla g 4 | BG04-A351H | Blattella germanica | E.coli | His | P54962 |
| Bla g 4 | BG04-A25H1 | Blattella germanica | Yeast cells | His | P54962 |
| Bla g 4 | BG04-A25H2 | Blattella germanica | Sf9 insect cells | His | P54962 |
| Bla g 5 | BG05-A951H | Blattella germanica | E.coli | His | O18598 |
| Bla g 6 | BG06-A35H | Blattella germanica | E.coli | His | Q1A7B3 |
| Bla g 7 | BG07-A25H | Blattella germanica | E.coli | His | Q9NG56 |
| Bla g 9 | BG09-A35H | Blattella germanica | E.coli | His | N/A |
| Blo t 1 | BT01-A25H | Blomia tropicalis | Yeast cells | His | A1KXI0 |
| Blo t 2 | BT02-A25H | Blomia tropicalis | Mammalian cells | His | Q1M2P1 |
| Blo t 5 | BT05-A25H | Blomia tropicalis | Yeast cells | His | O96870 |
| Blo t 21 | BT21-A25H1 | Blomia tropicalis | E.coli | His | A7IZE9 |
| Blo t 21 | BT21-A25H | Blomia tropicalis | Mammalian cells | His | A7IZE9 |
| Bos d 2 | BD02-A25H | Bos domesticus | E. coli | His | Q28133 |
| Bos d 3 | BD03-A25H | Bos domesticus | E. coli | His | Q28050 |
| Bos d 4 | BD04-A9010 | Bos taurus | Native protein | Tag-free | P00711 |
| Bos d 5 | BD05-A9010 | Bos taurus | Native protein | Tag-free | P02754 |
| Bos d 8 | BD08-A9010 | Bos taurus | Native protein | Tag-free | P02662, P02663, P02666, P02668 |

# Immunodiagnostics

## Allergens

| Name | Catalog # | Source Organism | Host | Tag Type | UniProt # |
|---|---|---|---|---|---|
| Bos d 10 | BD10-A25H | Bos domesticus | E. coli | His | P02663 |
| Can f 1 | CF01-A951H | Canis familiaris | E.coli | His | O18873 |
| Can f 1, Biotinylated | CF01-A31AH | Canis familiaris | E.coli | His | O18873 |
| Can f 2 | CF02-A951H | Canis familiaris | E.coli | His | O18874 |
| Can f 3 | CF03-A951H | Canis familiaris | E.coli | His | P49822 |
| Can f 5 | CF05-A951H | Canis familiaris | E.coli | His | P09582 |
| Can f 6 | CF06-A35U | Canis lupus familiaris | E.coli | Tag-free | H2B3G5 |
| Can s 2 | CN01-A32H | Cannabis sativa | E.coli | His | NA |
| Can s 3 | CN03-A32U | Cannabis sativa | E.coli | Tag-free | NA |
| Can s 5 | CN05-A32H | Cannabis sativa | E.coli | His | I6XT51 |
| Cap a 2 | CP02-A32H | Capsicum annuum | E. coli | His | AJ417552 |
| Che a 2 | CH02-A921H | Chenopodium album | E.coli | His | Q84V37 |
| Che a 3 | CH03-A921H | Chenopodium album | E.coli | His | Q84V36 |
| Cit s 2 | CT02-A32H | Citrus sinensis | E.coli | His | P84177 |
| Cor a 1 | CA01-A921H | Corylus avellana | E.coli | His | Q08407 |
| Cor a 1 | CA01-A22H | Corylus avellana | Yeast cells | His | Q08407 |
| Cor a 8 | CA08-A32H | Corylus avellana | E.coli | His | Q9ATH2 |
| Cor a 8 | CA08-A22H | Corylus avellana | Yeast cells | His | Q9ATH2 |
| Cor a 9 | CA09-A37A | Corylus avellana | Native protein | Tag-free | NA |
| Cor a 11 | CA11-A37A | Corylus avellana | Native protein | Tag-free | NA |
| Cor a 14 | CA14-A37A | Corylus avellana | Native protein | Tag-free | NA |
| Cor a 14 | CA14-A22H | Corylus avellana | Yeast cells | Tag-free | DOPWG2 |
| Cra c 4 | CC04-A35H | Crangon crangon | E.coli | His | D7F1P9 |
| Cra c 6 | CC06-A35H | Crangon crangon | E.coli | His | D7F1Q2 |
| Cra c 8 | CC08-A951H | Crangon crangon | E.coli | His | D7F1Q0 |
| Cro s 2 | CS02-A32H | Crocus sativus | E.coli | His | Q5EF31 |
| Cuc m 2 | CM02-A32H | Cucumis melo | E.coli | His | Q5FX67 |
| Cup a 1 | CA02-A32H | Hesperocyparis arizonica | E.coli | His | Q9SCG9 |
| Cyn d 7 | CD07-A32H | Cynodon dactylon | E.coli | His | P94092 |
| Cyn d 12 | CD12-A32H | Cynodon dactylon | E.coli | His | O04725 |

# Immunodiagnostics

## Allergens

| Name | Catalog # | Source Organism | Host | Tag Type | UniProt # |
|---|---|---|---|---|---|
| Cyp c 1 | CC01-A35H | Cyprinus carpio | E.coli | His | Q8UUS3 |
| Dau c 1 | DC01-A32H | Daucus carota | E.coli | His | O04298 |
| Der f 1 | DF01-A941H | Dermatophagoides farinae | E.coli | His | Q58A71 |
| Der f 2 | DF02-A941H | Dermatophagoides farinae | E.coli | His | Q00855 |
| Der p 1 | DP01-A25H | Dermatophagoides pteronyssinus | Mammalian cells | His | P08176 |
| Der p 2 | DP02-A941H | Dermatophagoides pteronyssinus | E.coli | His | P49278 |
| Der p 5 | DP05-A941H | Dermatophagoides pteronyssinus | E.coli | His | P14004 |
| Der p 7 | DP07-A941H | Dermatophagoides pteronyssinus | E.coli | His | P49273 |
| Der p 20 | DP20-A35H | Dermatophagoides pteronyssinus | E.coli | His | B2ZSY4 |
| Der p 21 | DP21-A941H | Dermatophagoides pteronyssinus | E.coli | His | Q2L7C5 |
| Der p 21/23 Fusion | DP22-A941H | Dermatophagoides pteronyssinus | E.coli | His | Q2L7C5, L7N6F8 |
| Der p 21/23, Biotinylated | DP22-A941AH | Dermatophagoides pteronyssinus | E.coli | His | Q2L7C5, L7N6F8 |
| Der p 23 | DP23-A941H | Dermatophagoides pteronyssinus | E.coli | His | L7N6F8 |
| Der p 39 | DP39-A35H | Dermatophagoides pteronyssinus | E.coli | His | N/A |
| Fag e 2 | FE02-A921H | Fagopyrum esculentum | E.coli | His | Q2PS07 |
| Fel d 1 | FD01-A951H | Felis catus | E.coli | His | P30438, P30440 |
| Fel d 4 | FD04-A951H | Felis catus | E.coli | His | Q5VFH6 |
| Fra a 1 | FA01-A921H | Fragaria x ananassa | E.coli | His | Q5ULZ4 |
| Fra a 4 | FA04-A32H | Fragaria x ananassa | E.coli | His | NA |
| Fra e 1 | FE01-A22H | Fraxinus excelsior | Yeast cells | His | Q7XAV4 |
| Gad c 1 | GC01-A25H | Gadus morhua | E. coli | His | P02622 |
| Gad m 1 | GM01-A35H | Gadus morhua | E. coli | His | Q90YL0 |
| Gal d 1 | GD01-A9010 | Gallus gallus | Native protein | Tag-free | P01005 |
| Gal d 1 | GD01-A25H | Gallus gallus | Mammalian cells | His | P01005 |
| Gal d 2 | GD02-A9010 | Gallus gallus | Native protein | Tag-free | P01012 |
| Gal d 3 | GD03-A9010 | Gallus gallus | Native protein | Tag-free | P02789 |
| Gal d 7 | GD07-A951H | Gallus gallus | E.coli | His | P02604 |
| Gly m 3 | GM03-A921H | Glycine max | N. benthamiana | His | O65809 |

# Immunodiagnostics

## Allergens

| Name | Catalog # | Source Organism | Host | Tag Type | UniProt # |
|---|---|---|---|---|---|
| Gly m 4 | GM04-A921H | Glycine max | E.coli | His | P26987 |
| Gly m 5 | GM05-A22H | Glycine max | E.coli | His | 022120 |
| Gly m 6 | GM06-A22H | Glycine max | E.coli | His | P04776 |
| Hel a 2 | HA02-A921H | Helianthus annuus | E.coli | His | 081982 |
| Hev b 8 | HB01-A321H | Hevea brasiliensis | E.coli | His | 065812 |
| Hum j 1 | HJ01-A22H | Humulus japonicus | E.coli | His | N/A |
| Hum s 1 | HS01-A22H | Humulus scandens | E. coli | His | Q64LH4 |
| Hum s 3 | HS03-A22H | Humulus scandens | Yeast cells | His | A0A6J3WUE7 |
| Jug r 3 | JU01-A31U | Juglans regia | E.coli | Tag-free | C5H617 |
| Jug r 7 | JU07-A32H | Juglans Regia | E.coli | His | A0A2I4DNN6 |
| Jun a 1 | JA01-A22H | Juniperus ashei | E.coli | His | P81294 |
| Jun a 7 | JA07-A921H | Juniperus ashei | E.coli | His | C0HLQ0 |
| Lit c 1 | LC01-A32H | Litchi chinensis | E.coli | His | NA |
| Lit v 2 | LV02-A951H | Litopenaeus vannamei | E.coli | His | Q004B5 |
| Lit v 3 | LV03-A951H | Litopenaeus vannamei | E.coli | His | B7SNI3 |
| Lit v 4 | LV04-A951H | Litopenaeus vannamei | E.coli | His | C7A639 |
| Mal d 1 | MD01-A921H | Malus domestica | E.coli | His | P43211 |
| Mal d 1 | MD01-A22H | Malus domestica | Yeast cells | His | P43211 |
| Mal d 4 | MD04-A32H | Malus domestica | E. coli | His | Q9XF42 |
| Man i 1 | MN01-A32H | Mangifera indica | N. benthamiana | His | A0A1B1FG09 |
| Man i 1 | MN01-A32H | Mangifera indica | E. coli | His | A0A1B1FG09 |
| Man i 2 | MN02-A31H | Mangifera indica | E.coli | His | NA |
| Man i 3 | MN03-A921H | Mangifera indica | N. benthamiana | His | Q2XPH2 |
| Man i 4 | MN04-A922H | Mangifera indica | E.coli | His | NA |
| Man i 4 | MN04-A921H | Mangifera indica | N. benthamiana | His | NA |
| Met e 1 | ME01-A22H | Metapenaeus ensis | E. coli | His | Q25456 |
| Mus a 1 | MA01-A32H | Musa acuminata | E.coli | His | Q94JN3 |
| Ole e 2 | OE02-A31H | Olea europaea | E. coli | His | 024169 |
| Ory c 3 | OC03-A25H | Oryctolagus cuniculus | Yeast cells | His | Q9GK63 |

# Immunodiagnostics

## Allergens

| Name | Catalog # | Source Organism | Host | Tag Type | UniProt # |
|---|---|---|---|---|---|
| Ory s 12 | OS12-A32H | Oryza sativa subsp. japonica | E. coli | His | Q9FUD1 |
| Pan b 1 | PB01-A951H | Pandalus borealis | E.coli | His | E5BBS3 |
| Par j 1 | PA01-A32H | Parietaria judaica | E.coli | His | P43217 |
| Par j 2 | PA02-A31U | Parietaria judaica | E.coli | Tag-free | P55958 |
| Pen a 1 | PE01-A25H | Penaeus aztecus | E.coli | His | Q3Y8M6 |
| Pen ch 18 | PC18-A961H | Penicillium chrysogenum | E.coli | His | Q9P8G3 |
| Pen m 2 | PM02-A951H | Penaeus monodon | E.coli | His | Q8I9P7 |
| Pen m 4 | PM04-A31H | Penaeus monodon | E.coli | His | NA |
| Pen m 6 | PM06-A31H | Penaeus monodon | E.coli | His | NA |
| Per a 1 | PA01-A951H | Periplaneta americana | E.coli | His | Q9TZR6 |
| Phl p 1 | PP01-A22H | Phleum pratense | E. coli | His | Q40967 |
| Phl p 2 | PP01-A951H | Phleum pratense | E.coli | His | P43214 |
| Phl p 2 | PP02-A22H | Phleum pratense | Mammalian cells | His | P43214 |
| Phl p 5 | PH05-A921H | Phleum pratense | E.coli | His | Q40960 |
| Phl p 5 | PP05-A22H | Phleum pratense | Mammalian cells | His | Q40960 |
| Phl p 6 | PP06-A22H | Phleum pratense | E. coli | His | P43215 |
| Phl p 7 | PP02-A32H | Phleum pratense | E.coli | His | O82040 |
| Phl p 11 | PP11-A22H | Phleum pratense | E. coli | His | Q8H6L7 |
| Phl p 12 | PP12-A32H | Phleum pratense | E. coli | His | P35079 |
| Pho d 2 | PD02-A32H | Phoenix dactylifera | E.coli | His | Q8L5D8 |
| Pis v 2 | PV02-A921H | Pistacia vera | N. benthamiana | His | B7P073 |
| Pla a 1 | PA01-A921H | Platanus acerifolia | N. benthamiana | His | Q8GT41 |
| Pla a 1 | PA01-A22H | Platanus acerifolia | Yeast cells | His | Q8GT41 |
| Pla a 2 | PA02-A22H | Platanus acerifolia | Mammalian cells | His | Q6H9K0 |
| Pla a 3 | PA03-A22H | Platanus acerifolia | E. coli | His | A0A0N9E6M0 |
| Pla a 4 | PA04-A32H | Platanus acerifolia | E. coli | His | N/A |
| Pol d 5 | PD05-A25H1 | Polistes dominula | Yeast cells | His | P81656 |
| Pol d 5 | PD05-A25H | Polistes dominula | E. coli | His | P81656 |
| Pop n 2 | PN02-A22H | Populus nigra | E. coli | His | A0A6G6AI64 |

# Immunodiagnostics

## Allergens

| Name | Catalog # | Source Organism | Host | Tag Type | UniProt # |
|---|---|---|---|---|---|
| Pru ar 1 | PA01-A31H | Prunus armeniaca | E. coli | His | O50001 |
| Pru av 1 | PAV01-A32H | Prunus avium | E. coli | His | O24248 |
| Pru du 1 | PR01-A921H | Prunus dulcis | E.coli | His | B6CQS9 |
| Pru p 1 | PP01-A921H | Prunus persica | E.coli | His | Q2I6V8 |
| Pru p 4 | PP04-A921H | Prunus persica | E.coli | His | Q8GT40 |
| Pyr c 4 | PC04-A32H | Pyrus communis | E.coli | His | Q9XF38 |
| Que a 1 | QA01-A921H | Quercus alba | E.coli | His | B6RQS1 |
| Rat n 1 | RN01-A25H1 | Rattus norvegicus | Yeast cells | His | P02761 |
| Rat n 1 | RN01-A25H | Rattus norvegicus | E. coli | His | P02761 |
| Sal s 8 | SS08-A35H | Salmo salar | E. coli | His | N/A |
| Scy p 1 | SP01-A25H | Scylla paramamosain | E. coli | His | A7L5V2 |
| Scy p 2 | SP02-A951H | Scylla paramamosain | E.coli | His | H6VGI3 |
| Scy p 3 | SP03-A35H | Scylla paramamosain | E.coli | His | A0A514C9K9 |
| Scy p 4 | SP03-A35H | Scylla paramamosain | E.coli | His | I2DDG2 |
| Scy p 8 | SP04-A35H | Scylla paramamosain | E.coli | His | A0A1L5YRA2 |
| Ses i 1 | SI01-A37A | Sesamum indicum | Native protein | Tag-free | NA |
| Ses i 1 | SI01-A22H | Sesamum indicum | E. coli | His | Q9AUD1 |
| Ses i 6 | SI06-A37A | Sesamum indicum | Native protein | Tag-free | NA |
| Sola l 1 | SL01-A32H | Solanum lycopersicum | E. coli | His | Q93YG7 |
| Sola l 4 | SL04-A921H | Solanum lycopersicum | E.coli | His | K4CWC5 |
| Sola l 6 | SL06-A921H | Solanum lycopersicum | E.coli | His | A0A3Q7F7X3 |
| Tri a 12 | TA01-A32H | Triticum aestivum | E.coli | His | X89825 |
| Tri a 14 | TA14-A22H | Triticum aestivum | E. coli | His | D2T2K2 |
| Tri a 36 | TA36-A22H | Triticum aestivum | E. coli | His | B2Y2Q7 |
| Ves v 5 | VV05-A25H1 | Vespula vulgaris | Sf9 insect cells | His | Q05110 |
| Ves v 5 | VV05-A25H | Vespula vulgaris | E. coli | His | Q05110 |
| Zea m 12 | ZM01-A32H | Zea mays | E.coli | His | P35081 |

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# Immunodiagnostics

## Autoimmune Disease Antigens

| Name | Catalog # | Source Organism | Host | Tag Type |
|---|---|---|---|---|
| Alanyl-tRNA Synthetase (PL-12) Antigen | ASA01-F23H | Homo sapiens (Human) | sf9 | His |
| Centromere Protein B (CENP-B) Antigen | CPA01-F23N | Homo sapiens (Human) | sf9 | Tag-free |
| Cytochrome P450 2D6 (LKM 1) Antigen | CPA02-F23N | Homo sapiens (Human) | sf9 | Tag-free |
| DNA Topoisomerase I (Scl-70; full length) Antigen | DTA01-F23H | Homo sapiens (Human) | sf9 | His |
| Formiminotransferase Cyclodeaminase (LC1) Antigen | FCA01-F23H | Homo sapiens (Human) | sf9 | His |
| Glutamate Decarboxylase 65 kDa (GAD65) Antigen | GDA01-F23H | Homo sapiens (Human) | sf9 | His |
| gp210 Antigen | GPA01-F23H | Homo sapiens (Human) | sf9 | His |
| Human Histidyl-tRNA-Synthetase (Jo-1) Antigen | HHA01-F23N | Homo sapiens (Human) | sf9 | Tag-free |
| Human IA-2 (ICA 512) Antigen | HIA01-F23H | Homo sapiens (Human) | sf9 | His |
| M2 Antigen | MA01-F23H | Homo sapiens (Human) | sf9 | His |
| Proliferating Cell Nuclear Antigen (PCNA) | PCA01-F23H | Homo sapiens (Human) | sf9 | His |
| Ribosomal Phosphoprotein P0 Antigen | RPA01-F23H | Homo sapiens (Human) | sf9 | His |
| SLA/LP Antigen | SLA01-F23H | Homo sapiens (Human) | *E. coli* | His |
| SRP54 Antigen | SPR01-F23H | Homo sapiens (Human) | sf9 | His |
| Threonyl-tRNA Synthetase (PL-7) Antigen | TSA01-F23H | Homo sapiens (Human) | sf9 | His |

# Immunodiagnostics

## Antibodies

| Name | Catalog # | Isotype/Class |
|---|---|---|
| Anti-Human IgG Antibody mIgM, Unconjugated | H38-60M | Mouse, IgM |
| Anti-Human IgM Antibody mIgG, Unconjugated | H38M-60M | Mouse, IgG |

## ELISA Kits

| Name | Catalog # |
|---|---|
| Bovine Brucella ELISA Kit | BBB01-876 |
| Bovine Chlamydia abortus ELISA Kit | BCAB1-876 |
| Bovine heat shock protein 70 (Hsp-70) ELISA Kit | BHS01-875 |
| Bovine Leptospira ELISA Kit | BLB01-876 |
| Bovine Protamine 1 (PRM1) ELISA Kit | BPRM1-875 |
| Guinea Pig Adenovirus (ADV) ELISA Kit | CADV1-876 |
| Guinea Pig Cytomegalovirus (CMV) ELISA Kit | CCMV1-876 |
| Guinea Pig Tyzzer's Disease (Clostridium piliforme) (CPIL) ELISA Kit | CCP01-876 |
| Human Oxytocin (OT) ELISA Kit | HOT01-875 |
| Human Transforming Growth Factor Beta 2 (TGF-β2) ELISA Kit | HTGF1-875 |
| Mouse Ectromelia Virus (EV) ELISA Kit | MEV01-876 |
| Mouse Hepatitis Virus (MHV) ELISA Kit | MHV01-876 |
| Mouse Lymphocytic Choriomeningitis Virus (LCMV) ELISA Kit | LCMV1-876 |
| Mouse Mycoplasma pulmonis (MP) ELISA Kit | MMP01-876 |
| Mouse Norovirus ELISA Kit | MNV01-876 |
| Mouse Parvovirus ELISA Kit | MPV01-876 |
| Mouse Pneumonia Virus (MPV) ELISA Kit | MPV02-876 |
| Mouse Sendai Virus (SV) ELISA Kit | MSV01-876 |
| Mouse Theiler's Murine Encephalomyelitis Virus (TMEV) ELISA Kit | MTV01-876 |
| Rat Hantavirus (HV) ELISA Kit | RHV01-876 |
| Rat Parvovirus (PV) ELISA Kit | RPV01-876 |
| Rat Sialodacryoadenitis Virus (SDAV) ELISA Kit | RSAV1-876 |



# Molecular Diagnostics Portfolio

Our Molecular Diagnostics Portfolio offers qPCR and RT-PCR master mixes, reverse transcription enzymes, DNA amplification and cloning kits, polymerases, RNA and DNA modification enzymes, RNA synthesis kits, and other reagents to support diverse molecular biology applications. These products are rigorously tested for high activity, sensitivity, and specificity, ensuring reliable performance in molecular research and diagnostic assays.

## Enzymes, Master Mixes, and Reagents

| Name | Catalog # | Description |
|---|---|---|
| 1st Strand cDNA Synthesis SuperMix for qPCR (gDNA Digester Plus) | CDN01-M29A | Ready-to-use premix with a gDNA digester, which removes residual genomic DNA contamination in RNA templates. |
| Advanced Reverse Transcriptase (200 U/µL) | RTH08-E24B | Modified M-MLV (H-) RT with removed RNase activity, greater cDNA synthesis efficiency, and higher thermostability. |
| DNase I, RNase-Free | DN01-E29C | Endonuclease that degrades single-stranded and double-stranded DNA. |
| dNTP Mix (25 mM each) | DN03-M29A | Premix containing dATP, dCTP, dGTP, and dTTP, each at a concentration of 25 mM, with >99% purity (HPLC), DNase/RNase/phosphatase-free. |
| dNTP Solution Set (100 mM each) | DN02-M29A | Four separate solutions (dATP, dCTP, dUTP, and dGTP), each at a concentration of 100 mM, with >99% purity (HPLC), DNase/RNase-free. |
| Fast High-Fidelity PCR Master Mix (With Dye) | HF02-M29A | 2X premix with High-Fidelity DNA Polymerase and electrophoresis indicators for direct loading of PCR products for electrophoresis. |
| High-Fidelity DNA Polymerase | HF01-E21B | Has both 5'→3' DNA polymerase activity and 3'→5' exonuclease activity. Its fidelity is 83 times higher than Taq DNA polymerase. |
| miRNA Universal qPCR SYBR Master Mix (Tailing) | MI01-M29A | Next-generation qPCR premix with SYBR Green I for the quantitative detection of miRNA and ROX Passive Reference Dye. |
| Multiplex One Step RT-qPCR Probe Kit (UDG Plus) | MPX02-K298 | For RNA templates with heat-resistant reverse transcriptase, hot start Taq DNA polymerase, and dUTP/UDG to prevent carryover contamination. |
| Multiplex One Step RT-qPCR Probe Kit (UDG Plus, GC Enhancer Plus) | MPX01-K298 | For RNA templates with heat-resistant reverse transcriptase for efficient first-strand cDNA synthesis and hot start Taq DNA polymerase. |
| Murine RNase Inhibitor (40 U/µL) | RNI03-X25A | Oxidation-resistant recombinant mouse RNase inhibitor that specifically inhibits RNases A, B, and C. |
| PCR Master Mix (No Dye) | TQ07-M29A | Ready-to-use 2X premix for conventional PCR. Amplified products have 3'-dA overhangs for TA cloning. |
| PCR Master Mix (With Dye) | TQ06-M29A | 2X premix for conventional PCR. Contains bromophenol blue dye for direct PCR product loading for electrophoresis. |
| Phi29 DNA Polymerase (10 U/µL) | PDP01-E24B | Phi29 DNA polymerase with exceptional strand displacement and processive synthesis activities. |

# Molecular Diagnostics Portfolio

## Enzymes, Master Mixes, and Reagents

| Name | Catalog # | Description |
|---|---|---|
| Reverse Transcriptase, High-Yield, Fast, and Thermostable | RTH04-E29B | Features high cDNA synthesis efficiency, faster reaction speed, enhanced thermal stability, and a higher reaction temperature limit. |
| RNase A From Bovine Pancreas | RNA01-E27C | Endoribonuclease that specifically cleaves single-stranded RNA at pyrimidine nucleotides. |
| RNase H (5 U/µL) | RNH02-E21C | Endoribonuclease that specifically hydrolyzes phosphodiester bonds in the RNA strand of DNA/RNA hybrids. |
| RNase H II (2 U/µL) | RNH03-E21C | Highly thermostable endoribonuclease that cleaves the RNA strand of DNA/RNA hybrids and exhibits optimal activity at 70–75°C. |
| SP6 RNA Polymerase | SR01-E21B | Designed for efficient in vitro transcription of RNA from DNA templates containing a SP6 promoter, and able to recognize modified NTPs. |
| T4 DNA Ligase | T401-E24F | Ligates blunt and sticky ends of dsDNA in the presence of ATP as a cofactor. Also repair nicks in dsDNA, dsRNA, and some DNA/RNA hybrids. |
| T7 High-Yield RNA Synthesis Kit | T702-K598 | IVT kit with T7 RNA Polymerase for short & long RNA transcript synthesis. |
| Taq DNA Polymerase | TQ05-E21B | Thermostable recombinant enzyme with 5'→3' polymerase and 5'→3' exonuclease activities but no 3'→5' exonuclease activity. |
| Ultra-Rapid Hot Start PCR Master Mix (With Dye) | HS01-M29A | Contains a modified Taq DNA polymerase, strong extension factor, amplification booster, an optimized buffer system, and a tracking dye. |
| Universal Blue qPCR Master Mix (Dye-Based) | TQ10-M29A | 2X hot start premix for real-time quantitative PCR (qPCR), blue-colored for easy sample tracking, highly sensitive and specific. |
| Universal Multiplex qPCR Master Mix (Probe-Based) | TQ11-M29A | 2x premix for qPCR that enables up to four qPCR reactions within a single reaction well. Highly sensitive and specific. Blue-colored. |
| Universal One-Step Cloning Kit | CLN02-K298 | 2X premix for homologous recombination cloning that enables direct cloning of PCR products into any vector at any desired site. |
| Universal TaqMan qPCR Mix (UDG Plus) | TQ12-M29A | Multiplex fluorescence-based qPCR premix with a next-generation, antibody-based hot start Taq polymerase. |
| Vaccinia Capping Enzyme | VC01-E54B | Catalyzes the formation of a cap structure at the 5' end of RNA. |

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# Molecular Diagnostics Portfolio

Our Molecular Diagnostics Portfolio also includes a range of isothermal amplification products, including reagents for loop-mediated isothermal amplification (LAMP) and recombinase polymerase amplification (RPA).

## Isothermal Amplification Enzymes

| Name | Catalog # | Source Organism | Host |
|---|---|---|---|
| ATP-dependent DNA helicase RecQ, Active | AH01-E311H | E. coli | E. coli |
| Bst II DNA Polymerase Large Fragment | BP01-E311 | Bacillus stearothermophilus | E. coli |
| Bsu DNA Polymerase Large Fragment | BD01-E311U | Bacillus subtilis | E. coli |
| RT-LAMP Dye Assay Kit (UDG Plus) | RTL01-K298 | N/A | N/A |
| Sau DNA Polymerase Large Fragment | SD01-E311U | Staphylococcus aureus | E.coli |
| Single-stranded DNA binding protein | SS01-C501H | E. coli | E. coli |
| T4 gp32 Protein | T4G32-C501H | Escherichia virus T4 | E. coli |
| T4 UvsX DNA Recombinase | T4SX-E311U | Escherichia virus T4 | E. coli |
| T4 UvsY Protein | T4SY-C501H | Escherichia virus T4 | E. coli |

## Custom Services

We offer custom gRNA synthesis and design services, custom protein expression, catalog product modifications, ssDNA/ssRNA probe customization, assay development, and more. Our protein services include but are not limited to:

- Custom protein production
- Concentration change
- Formulation change
- Tag change or removal
- Lyophilization
- Sterile filtration
- Protein fusion
- Expression host change

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# Next-Generation Sequencing

SignalChem Diagnostics offers a range of high-performance reagents for Next-Generation Sequencing (NGS) applications, optimized for use with Illumina™ and MGI™ platforms. This category includes streamlined library preparation kits for both DNA and RNA, advanced nucleic acid quantification kits, purification reagents, and RNA extraction products that support the full sequencing workflow from sample to data.

## Reagents

| Name | Catalog # | Description |
|---|---|---|
| 0.5 mL Thin-Walled Polypropylene Tubes | PPT01-P2CA | Thin-walled polypropylene tubes for Qubit fluorometers, offering uniform heat conduction and a secure, contamination-resistant seal. |
| 1X dsDNA High-Sensitivity Assay Kit | DSD01-K298 | Fast, highly sensitive fluorescence-based quantification kit for dsDNA, compatible with Qubit Fluorometer and fluorescence microplate readers. |
| Cell & Tissue RNA Extraction Kit | CTR01-K298 | RNA extraction kit for fast, phenol-free extraction of high-purity total RNA from tissues and cultured cells. |
| DNA Library Prep Kit (Mechanical) | DLP03-K298 | DNA library preparation kit with high efficiency end repair, dA-tailing, and adapter ligation, compatible with Illumina and MGI platforms. |
| DNA Selection Beads | DSB01-D291 | DNA selection beads that use the solid phase reverse immobilization principle for DNA purification and size selection. |
| Dual-Mode RNA Library Prep Kit | DRP01-K298 | RNA library preparation kit with dual-mode support for conventional and strand-specific workflows, compatible with Illumina and MGI platforms. |
| mRNA Isolation Kit | MR01-K29A | Oligo(dT)-coated magnetic bead kit designed to selectively isolate high-yield mRNA with low rRNA residuals from samples containing inhibitors. |
| One-Pot DNA Library Prep Kit (Enzymatic) | DLP04-K298 | One-tube library preparation kit that integrates DNA fragmentation and end-repair in a single step, compatible with Illumina and MGI platforms. |
| One-Pot Rapid DNA Library Prep Kit | DLP02-K298 | Rapid library prep kit that integrates fragmentation, end-repair, and A-tailing in a single reaction, compatible with Illumina and MGI platforms. |
| Primer Kit for Illumina, Set 1 | PK01-K29A | Indexing kit containing paired-end (PE) adapters and unique dual-index (UDI) primers optimized for Illumina NGS library preparation. |
| Primer Kit for Illumina, Set 2 | PK02-K29A | Indexing kit containing paired-end (PE) adapters and unique dual-index (UDI) primers optimized for Illumina NGS library preparation. |
| Primer Kit for Illumina, Set 3 | PK03-K29A | Indexing kit containing paired-end (PE) adapters and unique dual-index (UDI) primers optimized for Illumina NGS library preparation. |

# Next-Generation Sequencing

## Reagents

| Name | Catalog # | Description |
|---|---|---|
| Primer Kit for Illumina, Set 4 | PK04-K29A | Indexing kit containing paired-end (PE) adapters and unique dual-index (UDI) primers optimized for Illumina NGS library preparation. |
| Quick T4 DNA Ligase | T402-E24F | Designed for ligating DNA fragments and adapters during NGS library construction and validated with high-throughput sequencing. |
| RNA Cleaner | RC01-D291 | RNA cleaner with advanced magnetic beads and buffer system that selectively binds RNA while removing proteins, salts, and impurities. |
| rRNA Depletion Kit | RD01-K29A | RNase H-based kit that removes over 95% of rRNA from human, mouse, and rat RNA inputs, retaining non-ribosomal RNA for sequencing. |
| ssDNA Assay Kit | SSD01-K298 | Fluorescence-based quantification kit for single-stranded DNA, compatible with Qubit Fluorometer and fluorescence microplate readers. |
| Strand-Specific RNA Library Prep Kit (dNTP) (Premix and Sealing Version) | SRP02-K298 | Strand-specific RNA library prep kit (dNTP) with optimized reverse transcription, actinomycin D-free. |
| Strand-Specific RNA Library Prep Kit (dUTP) (Premix and Sealing Version) | SRP01-K298 | Strand-specific RNA library prep kit (dUTP-based) with integrated RNA fragmentation and reverse transcription, actinomycin D-free. |

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# In Vitro Transcription Portfolio

**SignalChem Diagnostics' In Vitro Transcription Portfolio offers high-purity, high-performance GMP-grade enzymes, kits, and reagents designed to support efficient, scalable RNA synthesis. Developed under stringent Good Manufacturing Practice (GMP) standards, these products enable precise control over RNA production workflows for a diverse range of applications.**

## GMP-Grade Enzymes

| Name | Catalog # | Description |
|---|---|---|
| DNase I, GMP-Grade (2 U/µL) | DE01-E59C | Digests both ssDNA and dsDNA, used to remove DNA contaminants from RNA and protein samples for optimal purity in downstream applications. |
| Inorganic Pyrophosphatase, GMP-Grade (0.1 U/µL) | PYR01-E59C | Catalyzes the hydrolysis of inorganic pyrophosphate into orthophosphate and can be used to improve RNA yield. Supplied at 0.1 U/µL. |
| Inorganic Pyrophosphatase, GMP-Grade (1 U/µL) | PYR02-E59C | Catalyzes the hydrolysis of inorganic pyrophosphate into orthophosphate and can be used to improve RNA yield. Supplied at 1 U/µL. |
| mRNA Cap 2'-O-Methyltransferase, GMP-Grade (50 U/µL) | MET01-E59B | Catalyzes the formation of the Cap1 structure, which enhances mRNA translation efficiency. |
| mRNA Vaccinia Capping Enzyme, GMP-Grade (10 U/µL) | VAC01-E59B | Catalyzes the formation of a cap structure at the 5' end of synthesized mRNA, used to enhance its stability and translation efficiency. |
| Murine RNase Inhibitor, GMP-Grade (40 U/µL) | RNI02-X55A | Oxidation-resistant recombinant mouse RNase inhibitor that specifically inhibits RNases A, B, and C. |
| RNase R, GMP-Grade (20 U/µL) | RNR01-E59C | Magnesium-dependent 3'→5' exoribonuclease that selectively degrades linear RNA but does not degrade circular and highly structured RNAs. |
| T7 RNA Polymerase, GMP-Grade (50 U/µL) | T701-E51B | Designed for efficient in vitro transcription of RNA from DNA templates containing a T7 promoter. Supplied at 50 U/µL. |
| T7 RNA Polymerase, GMP-Grade (250 U/µL) | T702-E51B | Designed for efficient in vitro transcription of RNA from DNA templates containing a T7 promoter. Supplied at 250 U/µL. |
| T7 RNA Polymerase, Low dsRNA, GMP-Grade (250 U/µL) | T703-E51B | Optimized for in vitro transcription with minimal dsRNA byproducts and used for RNA synthesis from linearized plasmids or PCR products. |

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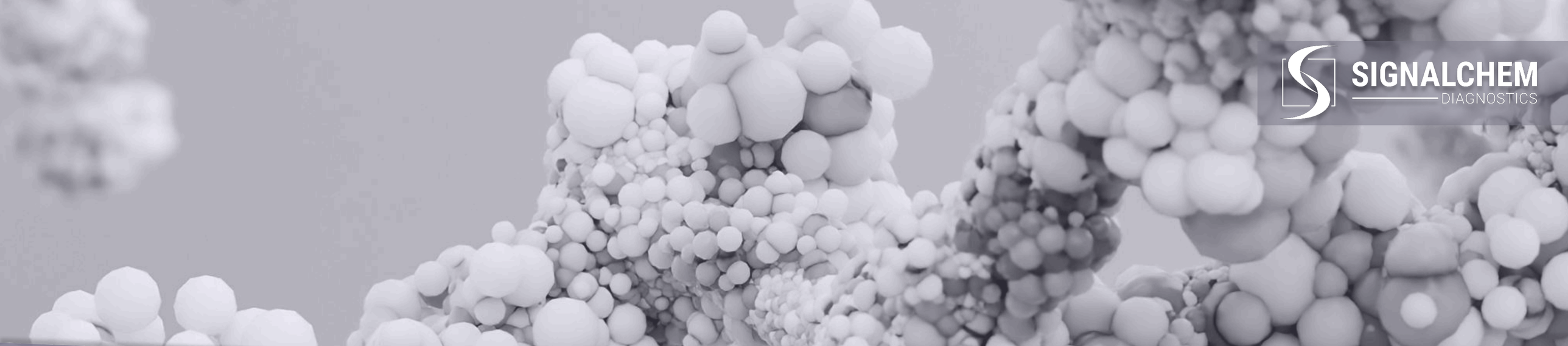
# In Vitro Transcription Portfolio

## Kits and Reagents

| Name | Catalog # | Description |
|---|---|---|
| 10X Digestion Buffer, GMP-Grade | DF01-B59A | Formulated to optimize the activity of various enzymes used in RNA and DNA digestion processes. |
| 10X RNase R Reaction Buffer, GMP-Grade | RBF01-B59A | Designed to optimize the activity of RNase R, an enzyme used to degrade linear RNA while preserving circular and highly structured RNAs. |
| 10X Transcription Buffer, GMP-Grade | TBF01-B59A | Reaction buffer optimized for efficient in vitro RNA synthesis. |
| ATP, Tris Solution, GMP-grade (100 mM) | AS01-B29A | ATP supplied as a 100 mM Tris solution, free of DNase, RNase, and phosphatase. |
| ATP Trisodium Salt Solution, GMP-grade (100 mM) | AS02-B29A | ATP supplied as a 100 mM aqueous solution, free of DNase, RNase, and phosphatase. |
| CTP, Tris Solution, GMP-grade (100 mM) | CS01-B29A | CTP supplied as a 100 mM Tris solution, free of DNase, RNase, and phosphatase. |
| CTP Trisodium Salt Solution, GMP-grade (100 mM) | CS02-B29A | CTP supplied as a 100 mM aqueous solution, free of DNase, RNase, and phosphatase. |
| GTP, Tris Solution, GMP-grade (100 mM) | GS01-B29A | GTP supplied as a 100 mM Tris solution, free of DNase and RNase. |
| GTP Trisodium Salt Solution, GMP-grade (100 mM) | GS02-B29A | GTP supplied as a 100 mM aqueous solution, free of DNase and RNase. |
| N1-Methyl-Pseudo-UTP, Tris Solution, GMP-grade (100 mM) | NS01-B29A | Modified UTP with N1-methylation, supplied in Tris buffer to improve mRNA stability and translation efficiency. |
| NTP Solution Set (100 mM) | NT01-M29A | Four separate solutions (ATP, CTP, GTP, and UTP), each at a concentration of 100 mM, with ≥99% purity, and free of DNase and RNase. |
| Pseudo-UTP, Tris Solution, GMP-grade (100 mM) | PS01-B29A | Pseudouridine-modified UTP supplied in Tris solution to improve mRNA stability and translation efficiency. |
| Pseudo-UTP Trisodium Salt Solution, GMP-grade (100 mM) | PS02-B29A | Pseudouridine-modified UTP supplied as a trisodium salt in solution to improve mRNA stability and translation efficiency. |
| T7 High-Yield RNA Synthesis Kit | T702-K598 | In vitro transcription kit with T7 RNA Polymerase for short and long RNA transcript synthesis. |
| UTP, Tris Solution, GMP-grade (100 mM) | US01-B29A | UTP supplied as a 100 mM Tris solution, free of DNase and RNase. |
| UTP Trisodium Salt Solution, GMP-grade (100 mM) | US02-B29A | UTP supplied as a 100 mM aqueous solution, free of DNase and RNase. |

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# General Reagents

General reagents that include small molecules, proteins, and affinity resins for molecular biology workflows.

## Affinity Proteins and Resins

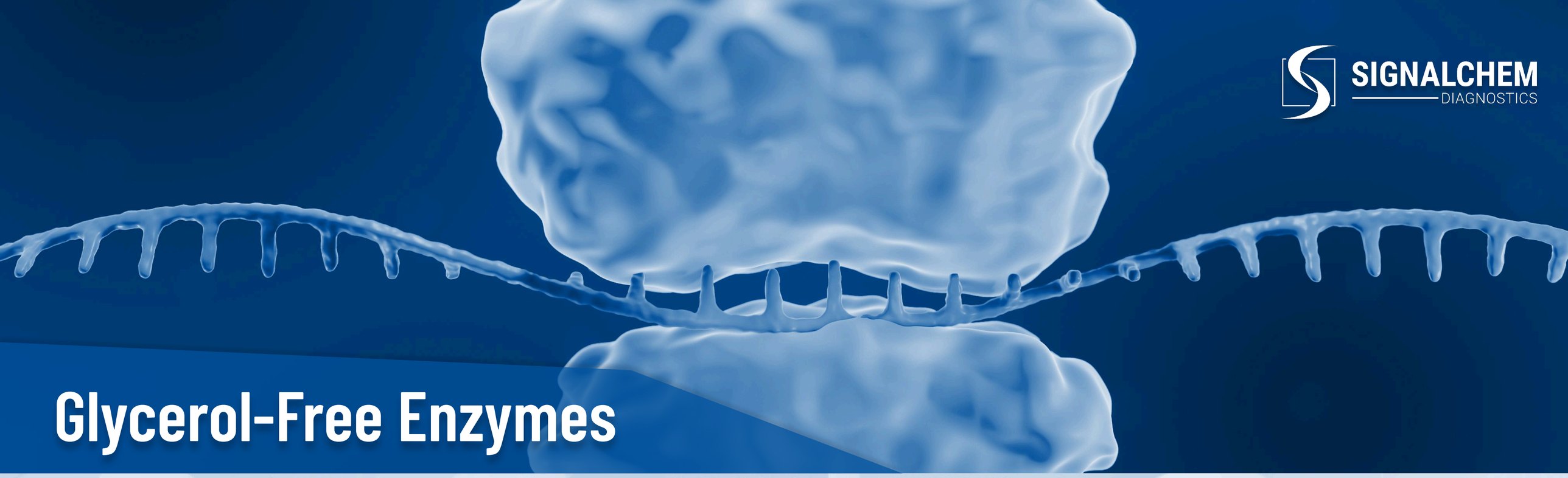
| Name | Catalog # | Source Organism | Host | Tag Type |
|---|---|---|---|---|
| Protein A | PA01-S551H | Staphylococcus aureus | E. coli | His |
| Protein G | PG01-S551H | Streptococcus sp. | E. coli | His |
| Protein L | PL01-S551H | Finegoldia magna | E. coli | His |
| Streptavidin | ST01-E511H | Streptomyces avidinii | E. coli | His |
| Streptavidin | ST01-E511U | Streptomyces avidinii | E. coli | Tag-free |
| Protein A Resin | PA01-RA551 | - | - | - |
| Protein L Resin | PL01-RA551 | - | - | - |
| Co-NTA Resin | CN01-RA25 | - | - | - |
| Ni-NTA Resin | NN01-RA15 | - | - | - |
| Ni-TED Resin | NT01-RA15 | - | - | - |

## Reagents

| Name | Catalog # |
|---|---|
| ATP, Adenosine 5′-triphosphate disodium salt trihydrate | AT01-Q29A |
| BSA, Bovine Serum Albumin | BS01-Q29A |
| D-(+)-Trehalose Dihydrate | TD01-Q29A |
| DTT, DL-Dithiothreitol | DT01-Q29A |
| IPTG, Isopropyl β-D-1-thiogalactopyranoside | TG01-Q29A |
| TCEP, Hydrochloride | TC01-Q29A |

## Enzymes

| Name | Catalog # | Source Organism | Host |
|---|---|---|---|
| Endonuclease | EN01-E311U | Serratia marcescens | E. coli |
| Proteinase K | P535-30N | Parengyodontium album | Pichia pastoris |



# Glycerol-Free Enzymes

**SignalChem Diagnostics offers glycerol-free enzymes designed for applications requiring customized formulations and lyophilization. These products provide the same activity and performance as their standard counterparts while offering greater flexibility for diagnostic and research workflows.**

## Enzymes

| Name | Catalog # | Description |
|---|---|---|
| Advanced Reverse Transcriptase, Glycerol-Free (600 U/µL) | RTH07-E29B | Modified M-MLV (H-) reverse transcriptase with removed RNase activity, enhanced cDNA synthesis efficiency, and improved thermostability. |
| FnCas12a, Glycerol-Free | CF12A-E311HB | Recombinant full-length Francisella tularensis protein with a His tag expressed in E. coli. |
| Hot Start E-Taq DNA Polymerase, Glycerol-Free (5 U/µL) | TQ08-E21B | Hot start DNA polymerase with dual antibody-based blocking for reduced nonspecific amplification and fluorescence signal loss. |
| Hot Start J-Taq DNA Polymerase, Glycerol-Free (6 U/µL) | TQ09-E21B | Hot start DNA polymerase that uses antibody-blocking technology to achieve high sensitivity and specificity in PCR amplifications. |
| LbuCas13a, Glycerol-Free | CS13A-E322UB | Recombinant full-length tag-free Leptotrichia buccalis LbuCas13a expressed in E. coli. |
| Murine RNase Inhibitor (200 U/µL), Glycerol-Free | RNI05-X25A | Oxidation-resistant recombinant mouse RNase inhibitor that specifically inhibits RNases A, B, and C. Supplied at 200 U/µL. |
| Murine RNase Inhibitor (40 U/µL), Glycerol-Free | RNI04-X25A | Oxidation-resistant recombinant mouse RNase inhibitor that specifically inhibits RNases A, B, and C. Supplied at 40 U/µL. |
| PNGase F, Glycerol-Free (100,000 U/mL) | PNG01-E21C | Amidase that efficiently cleaves N-linked glycans and is optimized for HPLC and mass spectrometry applications. |
| Reverse Transcriptase, High-Yield, Fast, and Thermostable, Glycerol-Free (600 U/µL) | RTH05-E29B | Engineered enzyme with enhanced cDNA synthesis efficiency, reaction speed, and thermostability. Supplied at 600 U/µL. |
| RNase H II, Glycerol-Free | RNH01-E21C | Highly thermostable ribonuclease that specifically cleaves the RNA strand of DNA/RNA duplexes. |
| SpCas9-NLS, Glycerol-Free | CS09N-E312HB | Full-length His-tagged Streptococcus pyogenes SpCas9 protein with a nuclear localization signal (NLS). |
| Uracil DNA Glycosylase (UDG), Heat-Labile, Glycerol-Free | UDG01-E29D | Recombinant uracil-DNA glycosylase that excises uracil from DNA and is readily heat-inactivated. |

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# Diagnostic Kits

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# Cannabis Industry Products

**SignalChem Diagnostics offers tools for rapid, on-site genetic testing in the cannabis industry, including a handheld fluorescent nucleic acid detection device. CRISPR-based Cannabis Gender ID Kits enable early identification of male plants. A duplex RT-qPCR HLVd Detection Kit provides fast, reliable screening for Hop Latent Viroid.**

## Cannabis Gender ID Kit

| Name | Catalog # | Description |
|---|---|---|
| CRISPOT Detection Device | CSP01-V19A | A handheld electronic instrument for fluorescent nucleic acid detection. |
| Cannabis Gender ID Starter Kit | CNB01-K799 | A kit for rapid, on-site cannabis gender identification using the CRISPOT Detection Device, designed to detect male-specific genes. For first-time users who already own CRISPOT. |
| Cannabis Gender ID Standard Kit | CNB02-K799 | A kit for rapid, on-site cannabis gender identification using the CRISPOT Detection Device, designed to detect male-specific genes. For users who already have CRISPOT and the Starter Kit and need to replenish reagents. |

## HLVd Cannabis qPCR Kit

| Name | Catalog # | Description |
|---|---|---|
| HLVd Cannabis qPCR Detection Kit | HLV01-K198 | Duplex RT-qPCR assay for rapid and reliable detection of Hop Latent Viroid (HLVd) in Cannabis sativa plant tissue. |

**We are constantly expanding our portfolio—new detection kits are coming soon!**
**Looking for a specific pathogen? Contact us at orders@signalchemdx.com**



# Plant Pathogen Detection Kits

SignalChem Diagnostics' LAMP-CRISPR detection system enables rapid, sensitive, and accurate on-site plant pathogen detection. Using a simple one-pot workflow, it combines LAMP amplification with CRISPR-based detection for reliable results. The portable detection device supports easy field deployment. The system is available as a Starter Kit for first-time users and a Standard Kit for replenishing reagents.

## Plant Pathogen Detection Kits

| Name | Catalog # |
|---|---|
| CRISPOT Detection Device | CSP01-V19A |
| Aggressive Neopestalotiopsis spp. (Neo-P) One-Pot Starter Detection Kit | AN001-K398 |
| Aggressive Neopestalotiopsis spp. (Neo-P) One-Pot Standard Detection Kit | AN002-K398 |
| Blueberry Scorch Virus One-Pot Starter Detection Kit | BC001-K398 |
| Blueberry Scorch Virus One-Pot Standard Detection Kit | BC002-K398 |
| Potato Virus Y One-Pot Starter Detection Kit | PY001-K398 |
| Potato Virus Y One-Pot Standard Detection Kit | PY002-K398 |
| Botrytis cinerea One-Pot Starter Detection Kit | BC01-K199 |
| Botrytis cinerea One-Pot Standard Detection Kit | BC02-K199 |
| Fusarium oxysporum One-Pot Starter Detection Kit | FX01-K199 |
| Fusarium oxysporum One-Pot Standard Detection Kit | FX02-K199 |
| Fusarium solani One-Pot Starter Detection Kit | FS01-K199 |
| Fusarium solani One-Pot Standard Detection Kit | FS02-K199 |
| Phytophthora infestans One-Pot Starter Detection Kit | PF01-K199 |
| Phytophthora infestans One-Pot Standard Detection Kit | PF02-K199 |
| Pseudomonas syringae One-Pot Starter Detection Kit | PS01-K199 |
| Pseudomonas syringae One-Pot Standard Detection Kit | PS02-K199 |
| Pythium dissotocum One-Pot Starter Detection Kit | PD01-K199 |
| Pythium dissotocum One-Pot Standard Detection Kit | PD02-K199 |

# Plant Pathogen Detection Kits

## Kits and Reagents

| Name | Catalog # |
|---|---|
| Pythium myriotylum One-Pot Starter Detection Kit | PM01-K199 |
| Pythium myriotylum One-Pot Standard Detection Kit | PM02-K199 |
| Sclerotinia sclerotiorum One-Pot Starter Detection Kit | SS01-K199 |
| Sclerotinia sclerotiorum One-Pot Standard Detection Kit | SS02-K199 |

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# Animal Pathogen Detection Kits

**SignalChem Diagnostics' LAMP-CRISPR-coupled detection kits facilitate quick, highly sensitive, and accurate on-site pathogen identification in animal samples. The system is available as a Starter Kit for first-time users and a Standard Kit for replenishing reagents.**

## Animal Pathogen Detection Kits

| Name | Catalog # |
|---|---|
| CRISPOT Detection Device | CSP01-V19A |
| C. perfringens Diarrhea One-Pot Starter Detection Kit 3-Plex Toxin Genes (cpa/cpe/netF) | PM001-K398 |
| C. perfringens Diarrhea One-Pot Standard Detection Kit 3-Plex Toxin Genes (cpa/cpe/netF) | PM002-K398 |

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