



百时美
BestEnzymes

PRODUCT CATALOG

BEST ENZYMES FOR BETTER LIFE



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聚焦合成生物
创造酶好生活

江苏愚公生物科技有限公司
Yugong Biotech Co., Ltd.

Company Profile

Yugong Biotech Co., Ltd. is committed to the R&D and production of molecular raw material enzymes in the upstream of synthetic biology. We deliver better, user-friendly products that are fully IP-protected. Our plant is built and managed to GMP standards; R&D and research-grade reagents are handled by our wholly-owned subsidiary, BestEnzymes Biotech. R&D-driven, we own China's premier platforms for cell-free protein synthesis and cytotoxic proteins expression, and is certified as a ISO 13485 compliant. We offer 100+ products across 11 lines supporting gene synthesis, biopharma, molecular diagnostic and life-science research.



6000+
Total investment
exceeds (million)



2000+
Clean production
plant (m²)



9000+
R&D and production
base (m²)



13485
Quality management
system certification



GMP-grade Production

The GMP production base is built in accordance with the QbD (Quality by Design) concept, adhering to GMP regulations and other relevant regulatory requirements in terms of plant layout, utility systems, selection of instruments and equipment, and personnel qualification. The clean rooms are equipped with two independent fermentation-separation-purification production lines. All materials are transported through closed pipelines to minimize the risk of exposure and cross-contamination. Supporting utility systems such as purified water, compressed air, and air conditioning are all put into use after installation, commissioning, and performance qualification in accordance with GMP regulations.



- The production process and the final products contain no animal-derived components.
- Antibiotics are not used during the production process.
- A well-defined and quality-assured cell bank is the source.
- Carefully selected and dedicated chromatography matrices are utilized.
- A rigorous system for confirmation, validation, and deviation/change management ensures the continuous stability of the production process.

Manufacturing Process

- Strict management of raw material suppliers and a quality traceability system.
- Based on stability studies of products with different specifications and packaging, ensure the ongoing efficacy of the products.
- Strict control over the production process to ensure product quality aligns with pharmacopeial and relevant regulatory requirements.

Product Property

- Certified under the **ISO13485** Quality Management System.
- Utilizing validated and verified methods and equipment to ensure and document the production process.
- A comprehensive process for managing changes, deviations, and CAPAs (Corrective and Preventive Actions) to ensure continuous production improvement.
- Some products have already been filed with the US **DMF**.

Quality Assurance and Supervision



Automatic Fermentation



Remote Monitoring



Cell Harvest and Lysis



Protein Purification

Restriction Endonucleases

LightNing® Restriction Endonucleases

LightNing® restriction endonucleases are a series enzymes which offer 100% activity in one universal buffer, complete digestion in 5 ~15 minutes, and provide a fast, convenient, and star activity-free user experience.

REF No.	Product Name	Specs
EG25511S	LightNing® AatII	30 rxns
EG15502S	LightNing® AccI	50 rxns
EG25501V/S	LightNing® AcI	10 rxns/25 rxns
EG24520S	LightNing® AfiII	100 rxns
EG23501S	LightNing® AgeI	25 rxns
EG25502S	LightNing® ApaI	200 rxns
EG15601S	LightNing® ApaLI	200 rxns
EG24509S	LightNing® AluI	50 rxns
EG15508S	LightNing® AscI	50 rxns
EG25503S	LightNing® AseI	100 rxns
EG26503S	LightNing® Aval	100 rxns
EG25509S	LightNing® Avall	100 rxns
EG15509S	LightNing® AvrII	25 rxns
EG15510S	LightNing® BamHI	500 rxns
EG24512S	LightNing® BbsI	25 rxns
EG15513S	LightNing® BclI	125 rxns
EG24507S	LightNing® BglI	200 rxns
EG15591S	LightNing® BglII	100 rxns
EG15518S	LightNing® BsaI	50 rxns
EG25515S	LightNing® Bsh1236I (BstUI)	50 rxns
EG25507S	LightNing® BsmI	50 rxns
EG25512S	LightNing® BspHI	30 rxns
EG23505S	LightNing® BsrGI	30 rxns
EG15607S	LightNing® BstBI	100 rxns
EG15528S	LightNing® BstEII	100 rxns
EG25508S	LightNing® Cfr42I (SaclI)	60 rxns
EG15532S	LightNing® ClaI	50 rxns
EG24501S	LightNing® DdeI	50 rxns
EG15585S	LightNing® DpnI	50 rxns
EG15533S	LightNing® DpnII	50 rxns
EG23502S	LightNing® DraI	100 rxns
EG24508S	LightNing® DraIII	30 rxns
EG15535S	LightNing® EagI	25 rxns
EG23511S	LightNing® EarI	30 rxns
EG15536S	LightNing® EcoRI	600 rxns
EG15537S	LightNing® EcoRV	200 rxns
EG21503S	LightNing® Esp3I (BsmBI)	30 rxns
EG24523S	LightNing® FokI	100 rxns
EG15586S	LightNing® FspI	50 rxns
EG23509S	LightNing® HaeIII	300 rxns
EG24510S	LightNing® HhaI	100 rxns
EG15539S	LightNing® HindIII	500 rxns
EG15593S	LightNing® HinfI	500 rxns
EG24511S	LightNing® HinP1I	100 rxns
EG15541S	LightNing® HpaI	50 rxns
EG23507S	LightNing® HpaII	200 rxns
EG15543S	LightNing® KasI	30 rxns
EG15544S	LightNing® KpnI	200 rxns
EG24522S	LightNing® MboI	50 rxns
EG15547S	LightNing® MluI	100 rxns
EG15548S	LightNing® MnlI	50 rxns
EG25505S	LightNing® MscI	30 rxns
EG24518S	LightNing® MseI	50 rxns
EG23508S	LightNing® MspI	250 rxns
EG23510S	LightNing® MunI (MfeI)	25 rxns
EG15550S	LightNing® NcoI	30 rxns
EG15551S	LightNing® NdeI	200 rxns
EG15552S	LightNing® NheI	30 rxns
EG15553S	LightNing® NotI	50 rxns
EG15602S	LightNing® NruI	50 rxns
EG15606S	LightNing® NsiI	25 rxns
EG15603S	LightNing® PaeI	25 rxns
EG23506S	LightNing® PmeI	50 rxns
EG15560S	LightNing® PspGI (EcoRII)	200 rxns
EG15561S	LightNing® PstI	500 rxns
EG23513S	LightNing® PvuI	30 rxns
EG15604S	LightNing® PvuII	200 rxns

REF No.	Product Name	Specs
EG24503S	LightNing® RsaI	100 rxns
EG15565S	LightNing® SacI	100 rxns
EG15605S	LightNing® SacII	50 rxns
EG15566S	LightNing® Sall	200 rxns
EG25524S	LightNing® SapI	50 rxns
EG15568S	LightNing® SbfI	25 rxns
EG24502S	LightNing® Scal	100 rxns
EG24515S	LightNing® Sdal (Sbfl)	25 rxns
EG15570S	LightNing® SfiI	100 rxns
EG15572S	LightNing® SmaI	100 rxns
EG24521S	LightNing® SnaBI	60 rxns
EG15574S	LightNing® SpeI	50 rxns
EG15575S	LightNing® SphI	50 rxns
EG15576S	LightNing® SspI	60 rxns
EG15577S	LightNing® Stul	100 rxns
EG15580S	LightNing® TaqI	200 rxns
EG24517S	LightNing® Tsp45I	25 rxns
EG15581S	LightNing® XbaI	500 rxns
EG15582S	LightNing® XcmI	60 rxns
EG15583S	LightNing® XhoI	500 rxns

Restriction Endonucleases

REF No.	Product Name	Specs
EG25526S	AarI	100 U
EG25519S	ApeKI	500 U
EG25516S	BbvCI	50 U
EG25525S	BpiI	250 U
EG24506S	BsiWI	300 U
EG22507V/S	BsmBI	200 U/1000 U
EG25528S	BspEI	500 U
EG23503S	BspQI	500 U
EG25506S	BsrDI	250 U
EG24516S	BstXI	500 U
EG25514S	PciI	200 U
EG21501S	SgeI	250 U
EG25513S	SgrAI	500 U
EG24514S	SspDI (KasI)	250 U
EG25527S	Swal	1000 U
EG25517S	XmnI	500 U

GMP Grade Restriction Endonucleases

Note: Manufactured and managed in compliance with GMP specifications, fully traceable, and free from animal derived components.

REF No.	Product Name	Specs
GMP501S	BsaI, GMP Grade	20000 U
GMP503S	BspQI, GMP Grade	20000 U
GMP505S	NheI, GMP Grade	20000 U
GMP502S	XbaI, GMP Grade	20000 U
GMP504S	XhoI, GMP Grade	20000 U

Nicking Endonucleases

REF No.	Product Name	Specs
EG25518S	Nb.BbvCI	300 U
EG23514S	Nb.BsrDI	2000 U
EG25520S	Nt.BbvCI	2000 U
EG23512S	Nt.BspQI	2000 U
EG24504S	Nt.BstNBI	2000 U

RNA Endonucleases

REF No.	Product Name	Specs
EG24505S	MazF	1000 U
EG25521S/M	RNase GG	2500 U/12500 U

Homing Endonucleases

REF No.	Product Name	Specs
EG25529S	I-CeuI	250 U
EG25504S	I-SceI	250 U

Polymerase

High-fidelity DNA polymerase & PCR mix

REF No.	Product Name	Specs
EG25103S	2× S705 HiFi Master Mix (+Dye)	1 ml
EG25103M	2× S705 HiFi Master Mix (+Dye)	5×1 ml
EG25103L	2× S705 HiFi Master Mix (+Dye)	20×1 ml
EG24110S	2× S705 HiFi Master Mix	1 ml
EG24110M	2× S705 HiFi Master Mix	5×1 ml
EG24110L	2× S705 HiFi Master Mix	20×1 ml

Conventional DNA polymerase & PCR mix

REF No.	Product Name	Specs
EG15109S	Taq DNA Polymerase	1000 U
EG15117M	Taq-Plus PCR Master Mix (2×)	5×1 ml
EG25105M	Taq-Plus PCR Forest Mix (2×) V2	5×1 ml
EG25105L	Taq-Plus PCR Forest Mix (2×) V2	100×1 ml
EG25104M	2× Taq PCR Aurora Mix	5×1 ml
EG25104L	2× Taq PCR Aurora Mix	100×1 ml

Isothermal Amplification-related Proteins

REF No.	Product Name	Specs
EG20403S	T4 UvsY Recombinase	200 µg
EG20128S	Rb69 gene 32 protein	1 mg
EG20129S	T4 gene 32 protein	1 mg
EG20130S	T4 UvsX Recombinase	500 µg
EG20401S	Bsu DNA Polymerase (Large Fragment)	500 µg
EG23101S	Bst II DNA Polymerase (Large Fragment)	1600 U
EG23101M	Bst II DNA Polymerase (Large Fragment)	8000 U
EG23102S	Bst II DNA Polymerase (Large Fragment, Glycerol Free)	1600 U
EG25102S	phi29 DNA Polymerase	500 U
EG25102M	phi29 DNA Polymerase	2500 U
EG25109S	phi29 II DNA Polymerase	500 U
EG25109M	phi29 II DNA Polymerase	2500 U

Polymerase Related Reagent

REF No.	Product Name	Specs
EG21101S	ET SSB	100 µg
EG20901S	dATP (100 mM)	1 ml
EG20902S	dTTP (100 mM)	1 ml
EG20903S	dCTP (100 mM)	1 ml
EG20904S	dGTP (100 mM)	1 ml
EG20905S	dUTP (100 mM)	1 ml
EG20907S	dNTPs (10 mM each)	1 ml

Hot Start Polymerase & Taq Antibody

REF No.	Product Name	Specs
EG20101S	AbTaq DNA Polymerase	500 U
EG20105S	Taq antibody	200 U
EG24105S	Taq antibody (B8)	100 µl

Fluorescence Quantitative

Dye-based qPCR Mix

REF No.	Product Name	Specs
EG20110M	Taq-HS SYBR® Green qPCR Premix (None Rox)	5×1 ml
EG20113M	Taq-HS SYBR® Green qPCR Premix(Universal)	5×1 ml
EG20410M	Taq-HS SYBR® Green qPCR Premix (Rox Separated)	5×1 ml
EG20114M	Taq SYBR® Green qPCR Premix (None Rox)	5×1 ml
EG20117M	Taq SYBR® Green qPCR Premix (Universal)	5×1 ml
EG22104M	Taq SYBR® Green qPCR Premix (Rox Separated)	5×1 ml
EG23111L	F488 SYBR qPCR Mix (Universal)	25×1 ml
EG23115M	Taq Visual SYBR qPCR Premix (Universal)	4×1.25 ml
EG23115L	Taq Visual SYBR qPCR Premix (Universal)	20×1.25 ml

Probe-based qPCR Mix

REF No.	Product Name	Specs
EG20118M	Taq-HS Probe qPCR Premix (None Rox)	5×1 ml
EG20121M	Taq-HS Probe qPCR Premix (Universal)	5×1 ml
EG22109S	One Step RT-qPCR Probe Kit v2	250 rxns

Reverse Transcription

Thermostable Reverse Transcriptase

REF No.	Product Name	Specs
EG15123S	M-MLV RNase H ⁻ Reverse Transcriptase	10000 U
EG15124S	M-MLV GIII Reverse Transcriptase	10000 U
EG24101S	M-MLV GIV Reverse Transcriptase	10000 U
EG21104S	High-Accuracy Reverse Transcriptase	10000 U

Thermostable Reverse Transcription Premix

REF No.	Product Name	Specs
EG15133S	All-in-One First-Strand Synthesis MasterMix (with dsDNase)	100 rxns
EG20131S	All-in-One First-Strand Synthesis MasterMix	100 rxns
EG24102S	RTase III Primer Flexible All-in-One Mix (with dsDNase)	100 rxns
EG26102S	GIII Visual All-in-One MasterMix (with dsDNase)	100 rxns
EG25110S	GIV All-in-One MasterMix (with dsDNase)	100 rxns

Modification and Cloning

Seamless Cloning Kit

REF No.	Product Name	Specs
EG24204S	DNA Assembly Mix Ultra	50 rxns
EG25202S	DNA Assembly Mix Mono	50 rxns
EG25202M	DNA Assembly Mix Mono	250 rxns
EG25209V	Golden Gate Assembly Kit (Bpil)	10 rxns
EG25209S	Golden Gate Assembly Kit (Bpil)	50 rxns
EG25207V	Golden Gate Assembly kit (BsmBI)	10 rxns
EG25207S	Golden Gate Assembly kit (BsmBI)	50 rxns

DNA Ligase

REF No.	Product Name	Specs
EG15205S	T4 DNA Ligase (Fast)	1000 U
EG25208S	Ultra T4 DNA Ligase	1000 U
EG20201S	Taq DNA Ligase	1000 U
EG24203S	HiFi Taq DNA Ligase	50 rxns

RNA Tool Enzymes

REF No.	Product Name	Specs
EG25204S	T4 RNA Ligase 1	1000 U
EG25204M	T4 RNA Ligase 1	5000 U
EG25206S	T4 RNA Ligase 2	1000 U
EG25206M	T4 RNA Ligase 2	5000 U
GMP109S	T4 RNA Ligase 2, GMP Grade	1000 U
GMP109M	T4 RNA Ligase 2, GMP Grade	5000 U
EG20208S	RNase H	1000 U
EG24201S	Thermostable RNase H	200 U
EG20003S	RNase A	100 mg
EG20003M	RNase A	1 g
EG24212S	Thermostable RNase HII	200 U
EG24210S	RNase T1	100 KU
EG24210M	RNase T1	5×100 KU
EG24211S	Thermostable RNase T1	100 KU
EG24211M	Thermostable RNase T1	5×100 KU

Non-specific DNA Endonucleases & DNA Repair Enzymes

REF No.	Product Name	Specs
EG20206S	dsDNase	50 rxns
EG24207S	DNase I, RNase-free (Lyophilized)	1000 U
EG22204S	DNase I, RNase-free	1000 U
EG22907S	Omni-nuclease (Benzonase)	25 KU
EG22907L	Omni-nuclease (Benzonase)	100 KU
EG25203S	TelN Protelomerase	250 U
EG25203M	TelN Protelomerase	1000 U
EG24209S	T7 Endonuclease I	250 U
EG24209M	T7 Endonuclease I	1250 U
EG22905S	Uracil DNA Glycosylase (UNG, UDG)	1000 U
EG22906S	HL-Uracil DNA Glycosylase (UNG, UDG)	500 U

DNA Exonucleases

REF No.	Product Name	Specs
EG24213S	Exonuclease I	1500 U
EG24213M	Exonuclease I	7500 U
EG20207S	Exonuclease III	5000 U
EG24208S	T5 Exonuclease	1000 U

Kinases & Phosphatases

REF No.	Product Name	Specs
EG25201S	T4 Polynucleotide Kinase	500 U
EG15208S	Alkaline Phosphatase (Fast)	500 U

Gene Editing Enzymes

REF No.	Product Name	Specs
EG23202S	AapCas12b	100 pmol
EG23202M	AapCas12b	1000 pmol
EG24205S	SpCas9-NLS	100 pmol
EG24205M	SpCas9-NLS	1000 pmol

In Vitro Transcription

REF No.	Product Name	Specs
EG24104S	T7 High Yield RNA Synthesis Kit	50 rxns
GMP101S	T7 RNA Polymerase, GMP Grade	20000 U
GMP101M	T7 RNA Polymerase, GMP Grade	200000 U
EG20124S	T7 RNA Polymerase	5000 U
EG20124M	T7 RNA Polymerase	25000 U
EG20125S	High T7 RNA Polymerase	5000 U
EG20125M	High T7 RNA Polymerase	25000 U
EG25108S	Poly(A) RNA Polymerase	100 U
EG25108M	Poly(A) RNA Polymerase	500 U
EG21916S	ATP (100 mM)	1 ml
EG21917S	CTP (100 mM)	1 ml
EG21918S	GTP (100 mM)	1 ml
EG21919S	UTP (100 mM)	1 ml
EG21920S	NTP Bundle (25 mM each)	1 ml
EG21921S	N1-Methyl-Pseudo-UTP (100 mM)	100 µl
EG21922S	Pseudo-UTP (100 mM)	200 µl
GMP102S	Murine RNase Inhibitor, GMP Grade	40000 U
EG20002S	RNase Inhibitor, Murine	10000 U
GMP105S	DNase I-ST, GMP Grade	2000 U
EG24202S	DNase I-ST, RNase-free	1000 U
EG24206S	DNase I-ST, RNase-free (Lyophilized)	1000 U
GMP103S	Pyrophosphatase, Inorganic (Yeast, GMP Grade)	100 U
EG23109S	Pyrophosphatase, Inorganic (Yeast)	10 U
EG23109M	Pyrophosphatase, Inorganic (Yeast)	100 U
EG25106S	Thermostable Inorganic Pyrophosphatase	200 U
EG22909S	Cap1 analogue AG	100 µl

Nucleic Acid Electrophoresis

REF No.	Product Name	Specs
EG20910S	Agarose	100 g
EG20910M	Agarose	500 g
EG21902M	50bp DNA Ladder	5×250 µl
EG21903M	100bp DNA Ladder	5×250 µl
EG21907M	500bp DNA Ladder	5×250 µl
EG21908M	100bp Plus DNA Ladder	5×250 µl
EG21909M	1kb DNA Ladder	5×250 µl
EG21910M	FY2000 DNA Marker	5×250 µl
EG21911M	FY5000 DNA Marker	5×250 µl
EG21912M	FY15000 DNA Marker	5×250 µl
EG21915S	6×DNA Loading Buffer with SDS	5×1ml
EG26901S	ssRNA Marker 1000	2×25 µl
EG26902S	2× RNA Loading Buffer	1 ml

Buffer Solution Instant Granules

The RTU (Ready To Use) series of buffer solution instant granules cover dozens of common buffers for molecular biology and protein research. These include nucleic acid electrophoresis buffer, protein electrophoresis buffer, and buffers for immunoblotting (transfer buffer, blocking buffer and wash buffer).

Nucleic Acid Electrophoresis

REF No.	Product Name	Specs
CP17201M	TAE	100 pouches
CP17202M	TBE	50 pouches
CP23201M	Tris-EDTA (pH 8.0)	100 pouches

Protein Electrophoresis

REF No.	Product Name	Specs
CP17204M	Tris-MES-SDS	50 pouches
CP17205M	Tris-MOPS-SDS	50 pouches
CP17206M	Tris-Glycine-SDS	50 pouches
CP21204M	Tris-HEPES-SDS	100 pouches

Western Blot

REF No.	Product Name	Specs
CP17207M	PBS-T	100 pouches
CP17208M	PBS (1 L/pouch)	100 pouches
CP17209M	TBS-T	100 pouches
CP17210M	TBS	100 pouches
CP20203L	Rapid Blocking Buffer (TBS-T)	20 pouches
CP20204M	Transfer Buffer (Semi Dry)	100 pouches
CP21202M	Tris-Glycine	50 pouches
CP21211M	PBS (2 L/pouch)	50 pouches

Dust-free Granules

REF No.	Product Name	Specs
CP21209S	SDS dust-free Granules	250 g
CP21209M	SDS dust-free Granules	1000 g

ELISA Kit

REF No.	Product Name	Specs
EG23601S	Benzonase ELISA Kit	96 T
EG24601S	Bsal ELISA Kit	96 T
EG24604S	BsmBI ELISA Kit	96 T
EG24603S	XbaI ELISA Kit	96 T
EG24602S	XhoI ELISA Kit	96 T

Protein Research

Protease

REF No.	Product Name	Specs
EG15312S	Recombinant Proteinase K	1 g
EG23303S	PNGase F (with His-tag)	15000 U
EG23303M	PNGase F (with His-tag)	75000 U
EG23304S	PNGase F (with His-tag, Glycerol Free)	15000 U
EG23304M	PNGase F (with His-tag, Glycerol Free)	75000 U
EG24303S	TEV Protease (with His-tag)	1000 U
EG25305S	Collagenase I	100 mg
EG25305M	Collagenase I	1 g
EG25306S	Collagenase II	100 mg
EG25306M	Collagenase II	1 g
EG25308S	Collagenase IV	100 mg
EG25308M	Collagenase IV	1 g

Cell-Free Protein Synthesis Kit

REF No.	Product Name	Specs
EG24302S	Cell-Free Protein Synthesis Kit (Lyophilized)	20 rxns
EG24302M	Cell-Free Protein Synthesis Kit (Lyophilized)	100 rxns
EG25303S	Cell-Free Protein Synthesis Kit Pro (Lyophilized)	20 rxns
EG25303M	Cell-Free Protein Synthesis Kit Pro (Lyophilized)	100 rxns
EG25304S	Cell-Free Protein Synthesis Kit Max (Lyophilized)	20 rxns
EG25304M	Cell-Free Protein Synthesis Kit Max (Lyophilized)	100 rxns
EG25330S	Cell-Free Protein Synthesis Kit (pAcF)	20 rxns
EG25331S	Cell-Free Protein Synthesis Kit (pAzF)	20 rxns
EG25332S	Cell-Free Protein Synthesis Kit (Kcr)	20 rxns

Protein Electrophoresis

REF No.	Product Name	Specs
EG23301S	Color Prestained Protein Marker (10~180 kDa)	250 µl
EG23301M	Color Prestained Protein Marker (10~180 kDa)	5×250 µl
EG23302S	Color Prestained Protein Marker (8~250 kDa)	250 µl
EG23302M	Color Prestained Protein Marker (8~250 kDa)	5×250 µl

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