

Raw Materials for molecular diagnostic





RAW MATERIALS



Certest Raw Materials provides high quality solutions for developing and manufacturing your Molecular Diagnostic IVD assays.

Our expertise in **primers & probes synthesis and purification, molecular biology enzymes manufacturing and dsDNA synthesis** offers to our customers a priceless support in their challenging projects.

All these items are already being used by our Viasure division in all their IVD products with excellent results.

Additionally, we also **manufacture our own fluorophores & quenchers** that allows us to have the best tools available and the proper knowledge for manufacturing your customized probes in a competitive time.

Our experience with qPCR diagnosis has helped us to better understand the challenges to provide specific products to specialized customers.



Index

Molecular Diagnostic Raw Materials

- 4 1. Molecular Biology enzymes & Hot Start PCR mAbs**
 - 1.1 Molecular Biology Enzymes
 - 1.2 Hot start PCR monoclonal antibodies
- 4 2. Master mix**
 - 2.1 DNA qPCR Master Mix
 - 2.2 RNA RT-qPCR Master Mix
- 5 3. Primers**
 - 3.1 ssDNA unsubstituted
 - 3.2 ssRNA substituted in C2
- 5 4. dsDNA blocks**
- 6 5. Probes**
 - 5.1 Hydrolysis Monoquenched/Doublequenched Probes
 - 5.2 Bilocked Hydrolysis Probes (Locked Nucleic Acids Probes)
 - 5.3 Hydrolysis Probes with MGB

Strengths



qPCR experience

Certest Raw Materials has quickly evolved and improved to respond Molecular Diagnostics needs.



Specific products for specialized customers

Certest Raw Materials provides high quality products fully adapted to our customers, with technical support to assist you in your qPCR assays.



Lyophilized final products

To guarantee high quality and stable products which last for up to 24 months.



Fast delivery

We process and deliver customer orders in an extremely short time to any destination. We are flexible and customer-oriented.



1. Molecular Biology enzymes & Hot Start PCR mAbs

Optimized molecular biology enzymes for qPCR applications (DNA Taq polymerase and Reverse Transcriptase) and anti-Taq DNA polymerase monoclonal antibodies (qPCR hot start system) for your qPCR assays.

1.1. Molecular Biology Enzymes

MT-25RT2	Reverse Transcriptase (RT2) Glycerol free (250.000 u)
MT-25TAQ	Thermus aquaticus (Taq) polymerase Glycerol free (50.000 u)
MT-25TAQk	Thermus aquaticus (Taq) polymerase without 5'3' exonuclease activity Glycerol free (25.000 u)
MT-25T4L	T4 DNA Ligase
MT-25T4K	T4 DNA Polynucleotide Kinase

1.2. Hot start PCR monoclonal antibodies

MT-16TQ01	Anti-TAQ polymerase mAb (clone TQ01) (x1mg)
MT-16TQ32	Anti-TAQ polymerase mAb (clone TQ32) (x1mg)

Lyophilized molecular biology enzymes kits also available

MT-E27RT	Kit Reverse Transcriptase (RT2), lyophilized (50000 U)
MT-E27TAQ	Kit Thermus aquaticus (Taq) polymerase, lyophilized (5000 U)
MT-E27TAQk	Kit Thermus aquaticus (Taq) polymerase without 5'-3' exonuclease activity, lyophilized (5000 U)



2. Master mix

Optimized real time qPCR master mixes. Choose the most suitable master mix, liquid or lyophilized for your DNA or RNA qPCR assays.

2.1. DNA qPCR Master Mix

MT-25MXD01	Liquid DNA Master Mix Hot Start (100 reactions)
MT-E25MXD02	Liquid DNA Master Mix Hot Start for lyophilization (200 reactions)
MT-E27MXD01	Lyophilized DNA Master Mix Hot Start (50 reactions)

2.2. RNA RT-qPCR Master Mix

MT-25MXR01	Liquid RNA Master Mix Hot Start (100 reactions)
MT-E25MXR02	Liquid RNA Master Mix Hot Start for lyophilization (200 reactions)
MT-E27MXR01	Lyophilized RNA Master Mix Hot Start (50 reactions)



3. Primers

Prevalent range of length is 12 mer up to 200 mer, purification method desalting or HPLC and any production scale could be provided.

We also provide single stranded RNA substituted in C2 by -H or -OMe. We synthesize oligonucleotides using high quality CPG support and amidites from world leading suppliers.

3.1. ssDNA unsubstituted

Single stranded unsubstituted DNA for your qPCR assays.

	Length	Purification Methods	Quantity (nmol)
OL-PRIMER	(12-50 mer)	Desalted / RP-HPLC	50 / 200 / 1000
OL-ULDNA	(50-200 mer)	RP-HPLC	50 / 200 / 1000

3.2. ssRNA substituted in C2' (-H, -OMe)

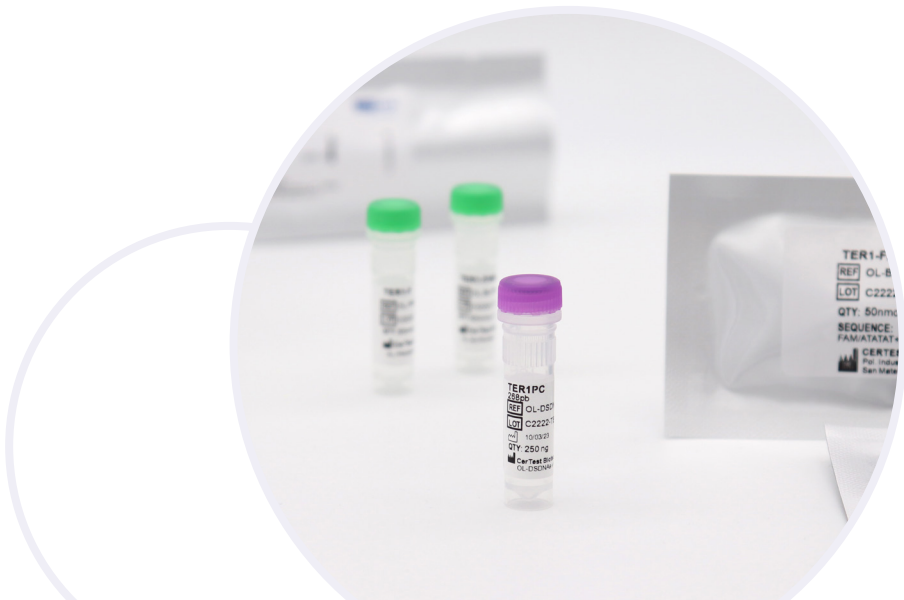
	Length	Purification Methods	Quantity (nmol)
OL-MRNA	(12-50 mer)	RP-HPLC	50 / 200 / 1000



4. dsDNA Blocks

Double stranded DNA, suitable as positive controls for your PCR assays. Products available in liquid & lyophilized format from 100 to 3000 pb. Choose the most suitable one for your RT-qPCR positive controls.

		Length
OL-DSDNA	Liquid dsDNA blocks	(100-3000 pb)
OL-DSDNA-L	Lyophilized dsDNA blocks	(100-3000 pb)





5. Probes

Any quantity (nmol) : 50, 200, 1000... Purified by RP-HPLC.

Prevalent range of length is 12 mer up to 50 mer for probes.

5.1 Hydrolysis Monoquenched/Doublequenched Probes

Most common Dual-Labeled probes for qPCR. During PCR, the target-bound probe gets hydrolized by the enzyme activity realising the fluorophore (FAM, HEX, ROX, TxR and Cy5) and quencher (BHQ, Eclipse,...).

	Modification 5'	Modification 3'
OL-PROBE	FAM / HEX	BHQ-1 / CBQX
	ROX / TxR / Cy5	BHQ-2 / CBQX2 / CBQx3

5.2 Biolocked Hydrolysis Probes (Locked Nucleic Acids Probes)

These probes are usually used for mutant and wild type strains detection but it can be used for other applications. Their bases are substituted by locked nucleic acid bases which increases the Tm.

	Modification 5'	Modification 3'
OL-BLPROBE	FAM / HEX	BHQ-1 / CBX
	ROX / TxR / Cy5	BHQ-2 / CBQX2 / CBQX3

5.3 Hydrolysis Probes with MGB

These probes end with a polyamine that increases their Tm by binding to the DNA template. This enhances their specificity and allows them to be used in assays to discriminate between different strains of microorganisms.

	Modification 5'	Modification 3'
OL-MGBPROBE	FAM / HEX / ROX/ TxR / Cy5	Eclipse / BHQ1



Also available:
Molecular Beacon Probes
Scorpion Probes

A global solution for your Molecular Diagnostic needs



Personalised and customised product



Storage:

Most of our products are stable at room temperature in the short term.
It is recommended frozen conditions (-20°C) for long term storage.



Deliveries:

Transport at ambient temperatures
Cheapest · Fastest

“ Our expertise is to develop
accurate and reliable products
to improve your molecular diagnostic assays.

certest
RAW MATERIALS

Certest Biotec, S.L.

Pol. Industrial Río Gállego II · Calle J, Nº1
50840, San Mateo de Gállego, Zaragoza (Spain)
Tel. (+34) 976 520 354
RawMaterials@certest.es · www.certest.es



Find us on

@certestbiotec

Certest RawMaterials/GEN-1024EN

Modification rights reserved. All rights reserved. © Certest Biotec, S.L.
The products, services and data set out in this document may suffer changes and/or variations on the texts and pictures shown.