

Takyon™

Amplify realtime and beyond

Universal qPCR kits
for SYBR® & Probe Assays

Inspired by the faster than light particle (Tachyon), the Takyon™ qPCR line from Eurogentec is designed to give you access to a new level of speed in your qPCR applications. Emerging from the combination of an optimized reaction buffer and a new efficient fusion polymerase, **Takyon™ kits for SYBR® and Probe Assays ensure sensitivity and fast delivery of accurate and reproducible results!**



Universal capabilities

The Takyon™ kits are compatible with all cyclers and applications up to automation assays.

Large dynamic range

The Takyon™ kits give a consistent amplification results over a large range of initial target concentrations

Robust formulation

The fusion polymerase is highly efficient and less sensitive to inhibitors. This allows efficient amplification on difficult templates like e.g. biological fluids and viruses.

Efficient in small reaction volumes:

The high sensitivity of the Takyon™ kits combined to the new highly concentrated 5X format give consistent results even in small volume reaction.

Suitable for multiplex

The sensitivity and efficiency of the Takyon™ kits allows the detection of multiple targets in a single reaction tube.

Adapted to HTP automation

With their optimized composition of the reaction buffer, the low viscosity HTP Takyon™ kits are perfectly suited for assay set-up automation.

Custom formulation

Our Takyon™ kits are more than catalog reagents. Please contact us to develop your own formulation tailored to your needs.



Takyon™ qPCR kit(s) for every needs

<p>1 Technology</p> <p>SYBR® or Probe</p>	<p>2 Formats</p> <p>MasterMix</p> <ul style="list-style-type: none"> Optimized ready-to-use mix Maximal reproducibility Reduced contamination risk <p>Reaction Mix contains e.g.: Reaction buffer • Takyon™ enzyme • MgCl₂ • dNTPs</p> <p>Core Kit</p> <ul style="list-style-type: none"> Components in separated vials Maximal flexibility Customizable Cost effective <p>Kit contains 10x Buffer tube • Takyon™ enzyme • 50 mM MgCl₂ • 5mM dNTP Mix • UNG/dUTP blend</p>
<p>3 Options</p>	

<p>VISUALIZE</p> <p>Combined with our inert BLUE Dye, Takyon™ qPCR Kits reveal to the naked eye dispensing errors that may occur during assay set-up.</p>	<p>STANDARDIZE</p> <p>ROX passive reference Dye for well-to-well normalization of the recorded fluorescent signal.</p>	<p>PREVENT</p> <p>Uracyl N-Glycosylase (UNG) is used to prevent DNA carryover contamination and cleave contaminating amplicons before amplification.</p>
<p>CONVERT</p> <p>The Takyon™ One-Step kit converter can easily convert any Takyon™ qPCR dTTP MasterMix into a One-Step qPCR kit.</p>	<p>MAXIMIZE</p> <p>Maximize the template volume thanks to the highly concentrated new 5X MasterMix format.</p>	<p>AUTOMATE</p> <p>The Low viscosity of the Takyon™ HTP 5X MasterMix allows more convenient assay set-up automation.</p>

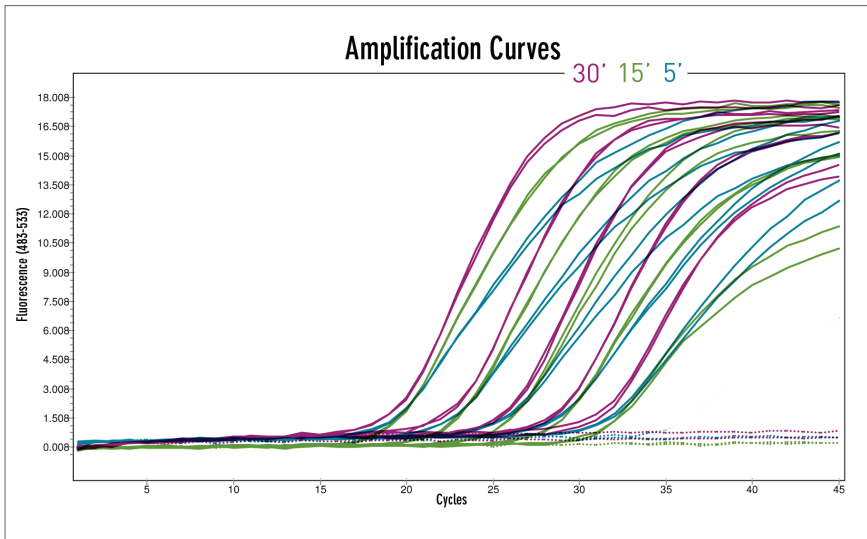


→ Results

▣ FAST

SAVE TIME AND GET RESULTS FASTER

Takyon™ kits achieve amplification with a very short extension time of 15 sec.



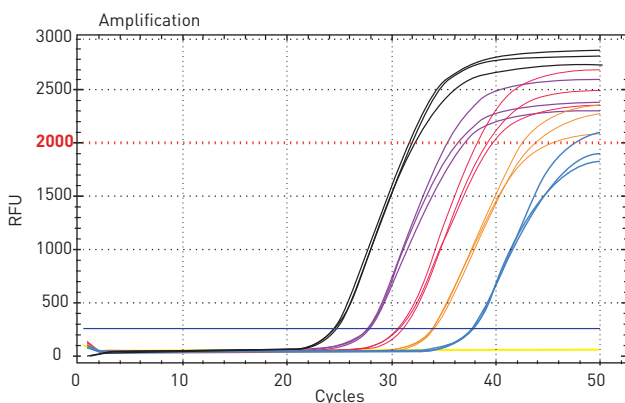
▣ **Figure 1:** Amplification of a mitochondrial target (115 bp) was performed in duplicate using a 25 µL reaction mix containing Takyon™ No Rox Probe MasterMix BLUE dTTP (UF-NPMT-B0701) on a Roche LC 480 Cycler. Serial dilution (1/8) starting from 30 ng of human DNA (Sigma, D7011) + NTC were tested in annealing-extension of: 5 sec., 15 sec. and 30 sec.

Recommended Protocol		
Takyon™ enzyme activation	3 min	95°C
40 Cycles		
Denaturation	3 sec	95°C
Annealing-Extension	20 sec	60°C
Takyon™ qPCR kits are also compatible with Regular Cyclers		

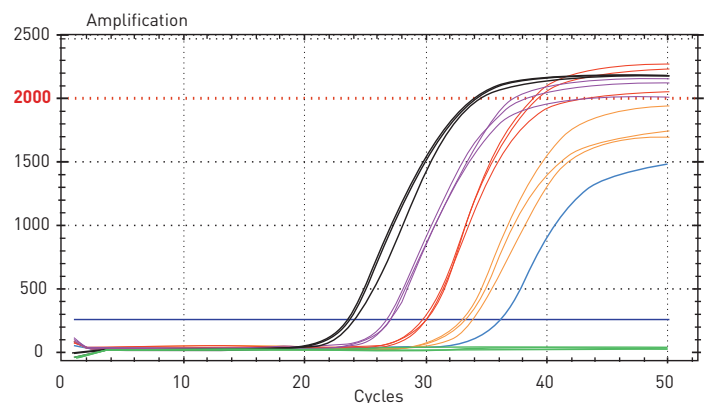
▣ ROBUST & SENSITIVE

DETECT LOW COPY TARGETS WITH A BRIGHTER SIGNAL!

Achieve outstanding sensitivity in your qPCR Assays with Takyon™ kits. Detect both low copy targets and product derived from difficult templates.



▣ Eurogentec



▣ Competitor L

▣ **Figure 2:** Comparison between Takyon™ Low ROX Probe MasterMix UNG (UF-LPMU-C0701) and **Competitor L**. Experiment was performed in triplicate on a serial dilution 1/8, down to 2 copies using the same primers, probe and cDNA. B2M (81 bp) amplification was monitored on a ABI Prism® 7500 Cycler (3 min. activation – 50 cycles with 3 sec. denaturation and 25 sec. annealing-extension).

REPRODUCIBLE

CONSISTENT RESULTS EVERYTIME!

Compatible with all cyclers and ready for high-throughput platforms, Takyon™ kits reduce variability and provide consistent reproducibility across different runs of the same template.

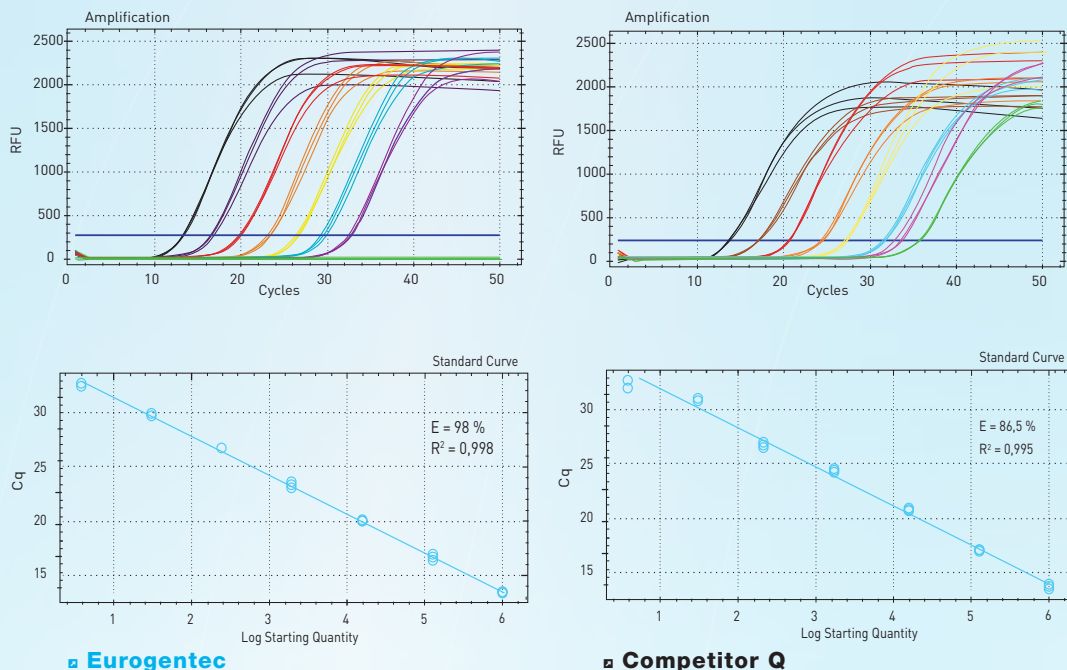


Figure 3: Takyon™ Probe MasterMixes ensure reproducibility. Comparison between Takyon™ No Rox Probe MasterMix dTTP (UF-NPMT-C0701) and **Competitor Q**. Experiment was performed in triplicate (7 serial dilutions 1/8 + NTC) using 5 µL reaction mix containing the same primers, probe and cDNA; 5 pg cDNA-hu-ge, PrimerDesign. 18s (74 pb) amplification was monitored on a Bio-Rad CFX384 platform (3 min. activation – 50 cycles with 3 sec. denaturation and 20 sec. annealing-extension).

SPECIFIC

OBTAIN RESULTS WITHOUT ARTIFACTS

Thanks to their optimized formulation, Takyon™ kits for SYBR® ensure high specificity, easily assessed by melting curve analysis.

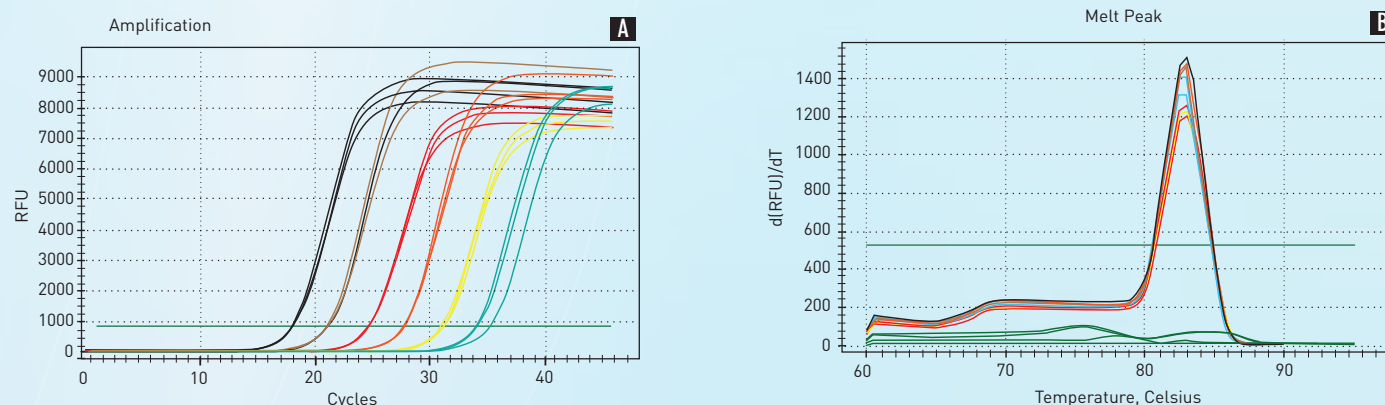


Figure 4: **A** Real-time qPCR of 8-fold serial dilution of an eukaryotic elongation factor gene fragment (138 bp) was performed in triplicate using a 25 µL reaction Mix containing Takyon™ No Rox SYBR® MasterMix Blue dTTP (UF-NSMT-B0701). The assay was performed on a Bio-Rad CFX96 platform (3 min. activation – 45 cycles with 3 sec. denaturation and 30 sec. extension). **B** Corresponding melt curve.

→ Catalogue number

Free
sample
available

Cycler Groups

- 1 ABI Prism®7000, 7300, 7700, 7900, StepOne® /Plus
- 2 ABI Prism®7500, Mx4000®, Mx3000P®, Mx3005P®, QuantStudio™12K and ViiA™7
- 3 AriaMx, CFX96 & CFX 384, Chromo 4, DNA Engine Opticon® 1 & 2, iCycler iQ®, iQ™5, LC96, LC480, LightCycler® Nano, MasterCycler® ep realplex I & II, MiniOpticon, Mx3005P®, Mx4000®, Mx3000P®, My iQ, Smartcycler® 1 & 2, Quantica® and Swift Spectrum™ 96, Rotor-Gene® 2000 /3000 /6000 /Q
- 4 iCycler iQ®, My iQ, iQ™5

qPCR kits

Takyon™ for Probe Assays

	Cat. #	Description	20 µL RXNs	
1	ROX	UF-RPMT-B0101	Takyon™ ROX Probe 2X MasterMix BLUE dTTP	150 RXN (1,5 ml)
		UF-RPMT-B0701		750 RXN (7,5 ml)
		UF-RPMT-C0101	Takyon™ ROX Probe 2X MasterMix dTTP	150 RXN (1,5 ml)
		UF-RPMT-C0701		750 RXN (7,5 ml)
	UF-RPMU-C0101	Takyon™ ROX Probe 2X MasterMix UNG	150 RXN (1,5 ml)	
	UF-RPMU-C0701		750 RXN (7,5 ml)	
	UF-RP5X-C0101	Takyon™ ROX Probe 5X MasterMix dTTP	150 RXN (0,6 mL)	
	UF-RP5X-C0501		1250 RXN (5 x 1 mL)	
	UF-RPCT-C0201	Takyon™ ROX Probe 2X Core Kit dTTP	1250 RXN	
2	Low ROX	UF-LPMT-B0101	Takyon™ Low ROX Probe 2X MasterMix BLUE dTTP	150 RXN (1,5 ml)
		UF-LPMT-B0701		750 RXN (7,5 ml)
		UF-LPMT-C0101	Takyon™ Low ROX Probe 2X MasterMix dTTP	150 RXN (1,5 ml)
		UF-LPMT-C0701		750 RXN (7,5 ml)
	UF-LPMU-C0101	Takyon™ Low ROX Probe 2X MasterMix UNG	150 RXN (1,5 ml)	
	UF-LPMU-C0701		750 RXN (7,5 ml)	
	UF-LP5X-C0101	Takyon™ Low ROX Probe 5X MasterMix dTTP	150 RXN (0,6 mL)	
	UF-LP5X-C0501		1250 RXN (5 x 1 mL)	
	UF-LPCT-C0201	Takyon™ Low ROX Probe 2X Core Kit dTTP	1250 RXN	
3	No ROX	UF-NPMT-B0101	Takyon™ No ROX Probe 2X MasterMix BLUE dTTP	150 RXN (1,5 ml)
		UF-NPMT-B0701		750 RXN (7,5 ml)
		UF-NPMT-C0101	Takyon™ No ROX Probe 2X MasterMix dTTP	150 RXN (1,5 ml)
		UF-NPMT-C0701		750 RXN (7,5 ml)
		UF-NPMU-C0101	Takyon™ No ROX Probe 2X MasterMix UNG	150 RXN (1,5 ml)
		UF-NPMU-C0701		750 RXN (7,5 ml)
	UF-NPCT-C0201	Takyon™ No ROX Probe 2X Core Kit dTTP	1250 RXN	
	UF-NP5X-C0101	Takyon™ No ROX Probe 5X MasterMix dTTP	150 RXN (0,6 mL)	
	UF-NP5X-C0501		1250 RXN (5 x 1 mL)	
	UF-NP5X-CG0101	Takyon™ No ROX Probe 5X HTP MasterMix dTTP	150 RXN (0,6 mL)	
	UF-NP5X-CG0501		1250 RXN (5 x 1 mL)	
		UF-NPCT-B0201	Takyon™ No ROX Probe 2X Core Kit BLUE dTTP	1250 RXN

All kits are
available in
5 or 10 packs
formats

Option PREVENT

Easily convert any dTTP kit into a carryover kit with a single pipeting step using the dUTP/UNG additive [RT-UTPUNG-020].

Option CONVERT

With the Takyon™ One-Step Kit Converter **convert any dTTP 2X MasterMix into a One-Step qPCR Kit** [UF-RTAD-D0101 UF-RTAD-D0701]

Takyon™ for SYBR® Assays

1	ROX	UF-RSMT-B0101	Takyon™ ROX SYBR® 2X MasterMix BLUE dTTP	150 RXN (1,5 ml)
		UF-RSMT-B0701		750 RXN (7,5 ml)
		UF-RSCT-B0201	Takyon™ Rox SYBR® 2X Core Kit BLUE dTTP	1250 RXN
2	Low ROX	UF-LSMT-B0101	Takyon™ Low ROX SYBR® 2X MasterMix BLUE dTTP	150 RXN (1,5 ml)
		UF-LSMT-B0701		750 RXN (7,5 ml)
3	No ROX	UF-NSMT-B0101	Takyon™ No Rox SYBR® 2X MasterMix BLUE dTTP	150 RXN (1,5 ml)
		UF-NSMT-B0701		750 RXN (7,5 ml)
		UF-NSCT-B0201	Takyon™ No Rox SYBR® 2X Core Kit BLUE dTTP	1250 RXN
4	Fluorescein	UF-FSMT-B0101	Takyon™ SYBR® 2X MasterMix BLUE dTTP with fluorescein	150 RXN (1,5 ml)
		UF-FSMT-B0701		750 RXN (7,5 ml)

Takyon™ One-Step

The Takyon™ One-Step MasterMixes contain the new EuroscriptII RT which delivers highly robust performance on classical mRNAs, small RNA and viral RNAs.

The new additive improves significantly the amplification performance on difficult virus types as well as on FFPE samples.

The 5X highly concentrated format allows more flexibility in template volume use especially in the context of small volume reaction.



→ Catalogue number

qRT-PCR kits

Takyon™ One-Step Probe 5X Kits			
for Probe Assays			
1	ROX	UF-RP5X-RT0101	Takyon™ One-Step ROX Probe 5X MasterMix dTTP
		UF-RP5X-RT0501	
2	Low ROX	UF-LP5X-RT0101	Takyon™ One-Step Low ROX Probe 5X MasterMix dTTP
		UF-LP5X-RT0501	
3	No ROX	UF-NP5X-RT0101	Takyon™ One-Step No ROX Probe 5X MasterMix dTTP
		UF-NP5X-RT0501	
Takyon™ One-Step SYBR® & Probe 2X Kits			
Combine any dTTP Takyon™ MasterMix with the One-Step kit converter			
	UF-RTAD-D0101	Takyon™ One-Step Kit converter 20 µL	for 150 RXN MMix
	UF-RTAD-D0701		for 750 RXN MMix

Related products and services

- qPCR plates
- qPCR controls
- Custom primers & probes
- Access dyes & quenchers
- MGB probes
- Assay dispensing services

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Amplify realtime and beyond




Also Available:

- HTP MasterMix convenient for assay set-up automation
- Custom formulations on request



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www.eurogentec.com/qpcr-takyon.html

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