



**GENAXXON successfully participates  
in an EU project. The One-Step Test for  
reliable, rapid legionella detection!**

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GENAXXON bioscience GmbH  
Söflinger Straße 70  
89077 Ulm  
Germany



**GENAXXON bioscience  
guarantees high quality with  
consistent Lot-to-Lot  
reproducibility  
of all products and kits  
at favourable prices!**



**Ausgabe 2024/09**

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# PCR

All you need  
from one Source!

Solutions for molecular  
and cell biology.



Sustainability is important  
for our work and packaging



*GENAXXON bioscience*  
*Products and Quality*  
*made in Germany!*

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## NEW! SimplyEnlight PCR

2X PCR Mastermix

...just mix with templates and primer...

Gel loading dye

...direct load onto gel...

DNA staining dye

...instant gel visualisation...

GENAXXON Product

Red MasterMix Fluoro (2x)

with gel staining dye

GenLadder 100 bp Plus

with gel staining dye

DNA Loading buffer I Fluoro

pBLook™ LED Transilluminator

Cat.-No.

M3236

M3237

M3232

M3234

Save time and costs!

Enlightenment for your PCR:  
simplify your workflow and  
light up your PCR with

GENAXXON's NEW Product Line

# „SimplyEnlight PCR“

Unlock the power of your PCR with  
Safety, Simplicity, and Ease!

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## HotStart PCR

Recommended GENAXXON Product	Cat.-No.	Extension Rate at 72°C	3'-5' Exo- nuclease	Standard Amplicon Size	Addition of A
<b>Polymerase with HotStart</b>					
<b>HotStart Taq DNA Polymerase</b> Aptamer inhibited	<b>M3006</b>	2 kb/min	no	>7 kb	A-overhang
<b>SuperHot Taq DNA Polymerase</b> chemically modified Hotstart Polymerase	<b>M3307</b>	2 kb/min	no	>7 kb	A-overhang
<b>FAST HotStart DNA polymerase</b>	<b>M3287</b>	up to 30 kb/min	no	>5 kb	A-overhang
<b>MasterMix with HotStart</b>					
<b>SuperHot MasterMix (2x)</b>	<b>M3007</b>	2 kb/min	no	>7 kb	A-overhang
<b>FAST HotStart DNA polymerase (2x)</b> MasterMix with dye	<b>M3288</b>	up to 30 kb/min	no	>5 kb	A-overhang
<b>Red MasterMix Hot (2x)</b> Hotstart Mastermix with red dye	<b>M3221</b>	2-4 kb/min	no	>6 kb	A-overhang

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## Standard PCR

Recommended  
GENAXXON Product

Cat.-No.	Extension Rate at 72°C	3'-5' Exo- nuclease	Standard Amplicon Size	Addition of A
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### Standard Taq

Taq DNA Polymerase S (high specificity)	<b>M3001</b>	2 kb/min	no	>7 kb	A-overhang
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Taq DNA Polymerase E (high efficiency)	<b>M3043</b>	2 kb/min	no	>7 kb	A-overhang
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### Mix with Standard Taq

PCR MasterMix (2x)	<b>M3014</b>	2 kb/min	no	>4 kb	A-overhang
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### Red MasterMix (2x)

PCR MasterMix with red dye	<b>M3029</b>	2 kb/min	no	>4 kb	A-overhang
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### Red MasterMix Fluoro (2x)

with gel staining dye	<b>M3236</b>	2 kb/min	no	>4 kb	A-overhang
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**Achieve rapid genotyping with our Red MasterMix and DNA Q-Extraction solution - fast DNA extraction followed by seamless amplification.**

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## NEW! FAST PCR

	Cat.-No.	Extension Rate at 72°C	3'-5' Exo-nuclease	Standard Amplicon Size	Addition of A
<b>FAST DNA polymerases</b>					
<b>FAST DNA polymerase</b>	<b>M3285</b>	up to 30 kb/min	no	>5 kb	A-overhang
<b>FAST DNA polymerase (2x) MasterMix with dye</b>	<b>M3286</b>	up to 30 kb/min	no	>5 kb	A-overhang
<b>FAST HotStart DNA polymerase</b>	<b>M3287</b>	up to 30 kb/min	no	>5 kb	A-overhang
<b>FAST HotStart DNA polymerase (2x) MasterMix with dye</b>	<b>M3288</b>	up to 30 kb/min	no	>5 kb	A-overhang
<b>ProbeMastermix FAST</b>					
<b>PMm No ROX FAST*</b>	<b>M3144</b>	6-8 kb/min	no	100-400 bp	A-overhang
<b>PMm Low ROX FAST**</b>	<b>M3152</b>	6-8 kb/min	no	100-400 bp	A-overhang
<b>PMm High ROX FAST***</b>	<b>M3155</b>	6-8 kb/min	no	100-400 bp	A-overhang
<b>GreenMastermix FAST</b>					
<b>GMm No ROX FAST*</b>	<b>M3150</b>	6-8 kb/min	no	100-400 bp	A-overhang
<b>GMm Low ROX FAST**</b>	<b>M3154</b>	6-8 kb/min	no	100-400 bp	A-overhang
<b>GMm High ROX FAST***</b>	<b>M3228</b>	6-8 kb/min	no	100-400 bp	A-overhang

\* without ROX for qPCR / \*\* with 50nM ROX for qPCR / \*\*\* with 500nM ROX for qPCR

FAST

\* GC-rich, secondary structures, etc.



## PCR of difficult\* or unclear templates

Recommended GENAXXON Product	Cat.-No.	Extension Rate at 72°C	3'-5' Exo- nuclease	Standard Amplicon Size	Addition of A
<b>Polymerase without HotStart</b>					
<b>Taq DNA Polymerase E</b> Standard Taq	<b>M3043</b>	2 kb/min	no	>7 kb	A-overhang
<b>AQ97 High Fidelity proofreading Polymerase</b>	<b>A767501</b>	6 kb/min	yes	>7 kb	Blunt end
<b>Polymerase with HotStart</b>					
<b>HotStart Taq DNA Polymerase</b> Aptamer inhibited	<b>M3006</b>	2 kb/min	no	>7 kb	A-overhang
<b>SuperHot Taq DNA Polymerase</b> chemically modified Hotstart Polymerase	<b>M3307</b>	2 kb/min	no	>7 kb	A-overhang
<b>ReproHot (KOD) proofreading Polymerase</b>	<b>M3012</b>	2 kb/min	yes	>7 kb	Mixed
<b>MasterMix</b>					
<b>Red MasterMix (2x)</b> PCR MasterMix with red dye	<b>M3029</b>	2 kb/min	no	>4 kb	A-overhang
<b>SuperHot MasterMix (2x)</b>	<b>M3007</b>	2 kb/min	no	>7 kb	A-overhang
<b>AQ97 High Fidelity MasterMix (2x)</b>	<b>A770101</b>	6 kb/min	yes	>7 kb	Blunt end
<b>NGSClone PCR MasterMix (2x)</b>	<b>M3139</b>	1-2 kb/min	yes	>10 kb	Blunt end

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## Proofreading PCR (high fidelity PCR)

Recommended GENAXXON Product	Cat.-No.	Extension Rate at 72°C	3'-5' Exo-nuclease	Standard Amplicon Size	Addition of A
<b>Standard Proofreading PCR - Standard proofreading enzyme</b>					
<b>Pfu proofreading DNA Polymerase</b>	<b>M3004</b>	about 700 bp/min	yes	4-5 kb recommended	Blunt end
<b>Pwo proofreading DNA Polymerase</b>	<b>M3002</b>	about 700 bp/min	yes	4-5 kb recommended	Blunt end
<b>Proofreading PCR of long fragments</b>					
<b>ReproFast proofreading Polymerase</b>	<b>M3003</b>	2 kb/min	yes	>7 kb	Mixed
<b>AQ97 High Fidelity proofreading Polymerase*</b>	<b>A767501</b>	6 kb/min	yes	>7 kb	Blunt end
* DNA Polymerase with fused protein binding domain					
<b>Hotstart Proofreading PCR of long fragments</b>					
<b>NGSClone PCR MasterMix (2x)</b>	<b>M3139</b>	1-2 kb/min	yes	>10 kb	Blunt end
<b>ReproHot (KOD) proofreading Polymerase</b> Mix of Hotstart DNA polymerases	<b>M3012</b>	2 kb/min	yes	>7 kb	Mixed





# Quantitative and Realtime PCR / qPCR

Recommended GENAXXON Product	Cat.-No.	Extension Rate at 72°C	3'-5' Exo- nuclease	Standard Amplicon Size	Addition of A
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**One optimized solution for all your qPCR needs, compatible across multiple instruments**

<b>GNX Versa qPCR MasterMix 2x</b>	<b>M3212</b>	2-4 kb/min	no	<5kb	A-overhang
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**Reliable analysis of challenging samples**

<b>GNX Food Probe qPCR MasterMix 2x</b>	<b>M3048</b>	2-4 kb/min	no	<5kb	A-overhang
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**ProbeMastermix for qPCR**

<b>No ROX (M3045) / Low ROX (M3031) / High ROX (M3010)</b>		2 kb/min	no	100-400 bp	A-overhang
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**GreenMastermix for qPCR**

<b>No ROX (M3023) / Low ROX (M3011) / High ROX (M3052)</b>		2 kb/min	no	100-400 bp	A-overhang
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**ProbeMastermix FAST**

<b>No ROX FAST* (M3144) / Low ROX FAST** (M3152) / High ROX FAST*** (M3155)</b>		6-8 kb/min	no	100-400 bp	A-overhang
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**GreenMastermix FAST**

<b>No ROX FAST* (M3150) / Low ROX FAST** (M3154) / High ROX FAST*** (M3228)</b>		6-8 kb/min	no	100-400 bp	A-overhang
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\* without ROX for qPCR / \*\* with 50nM ROX for qPCR / \*\*\* with 500nM ROX for qPCR

**FAST**

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## Allele Specific Discrimination, Point Mutations, Single Nucleotide Polymorphism PCR - SNP

Recommended GENAXXON Product	Cat.-No.	Extension Rate at 72°C	3'-5' Exo- nuclease	Standard Amplicon Size	Addition of A
<b>SNP Pol DNA Polymerase</b> Optimized for SNP-analytics or HLA genotyping	<b>M3009</b>	0.5-1 kb/min	no	60 - 250 bp	A-overhang
<b>SNP PolTaq DNA Polymerase</b> Optimized for SNP-analytics or HLA genotyping with hydrolyzing probes	<b>M3025</b>	0.5-1 kb/min	no	60 - 250 bp	A-overhang
<b>SNP Pol DNA Mastermix</b> Optimized for SNP-analytics or HLA genotyping	<b>M3061</b>	0.5-1 kb/min	no	60 - 250 bp	A-overhang
<b>SNP Pol TaqDNA Mastermix</b>	<b>M3028</b>	0.5-1 kb/min	no	60 - 250 bp	A-overhang



## Multiplex qPCR

Recommended Genaxxon Product	Cat.-No.	Extension Rate at 72°C	3'-5' Exo- nuclease	Standard Amplicon Size	Addition of A
<b>5x qPCR Multiplex MasterMix</b> Tested for up to 5 primer/probe pairs in a single PCR tube	<b>M3024</b>	2 kb/min	no		A-overhang
<b>Lyophilized 5x qPCR Multiplex MasterMix</b>	<b>M3026</b>	2 kb/min	no		A-overhang
<b>LyoPlex Multiplex PCR MasterMix</b> lyophilisiert	<b>M3005</b>	2-4 kb/min	no		A-overhang
<b>Multiplex HS MasterMix (2x)</b>	<b>M3013</b>	4-6 kb/min	no		A-overhang



## RT and RT-PCR (reverse transcription plus PCR)

Recommended GENAXXON Product	Cat.-No.	3'-5' Exo- nuclease	Standard Amplicon Size	Addition of A
<b>Reverse transcription</b>				
<b>M-MuLV reverse Transcriptase</b> Standard RT enzyme, RNase H negative	<b>M3042</b>			
<b>Scriptase RT - cDNA synthesis Kit</b> Optimized RT enzyme	<b>SM3134</b>			
<b>One-Step RT-PCR MasterMix (2x)</b>	<b>M3136</b>			
<b>HotScriptase Probe RT-qPCR MasterMix without ROX</b> MasterMix of genetically engineered enzyme for 1-step RT-PCR	<b>M3064</b>	<b>no</b>	<b>400 bp</b>	<b>A-overhang</b>
<b>One-Step RT-qPCR (2x) ProbeMasterMix 1-step RT-qPCR for qPCR with Probes</b>	<b>M3138</b>			
<b>One-Step RT-qPCR (2x) GreenMasterMix 1-step RT-qPCR for qPCR with SybrGreen</b>	<b>M3137</b>			

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## DNA Ladders

Recommended GENAXXON Product	Cat.-No.	Range	Intervals	Concentration
GenLadder 50bp (ready to use)	M3072	50 bp up to 1500 bp	50 / 100 / 200 / 300	0.1 µg/µL
GenLadder 100bp Plus 1.5kb (ready-to-use)	GM3094	100 bp up to 3000 bp	100 / 500 / 1500	0.1 µg/µL
GenLadder 1kb (ready-to-use)	M3328	250 bp up to 10000 bp	250 / 500 / 1000 / 2000	0.1 µg/µL
GenLadder XLarge up to 25 kbp (ready-to-use)	GM3084	250 bp up to 25000 bp	250 / 500 / 1000 / 2000 / 15000	0.1 µg/µL
GenLadder 100 bp Plus with gel staining dye	M3237	100 bp up to 3000 bp	250 / 500 / 1500	0.1 µg/µL
Lambda-DNA (undigested)	M3073	Molecular weight 48502 bp		0.5 µg/µL



## Non-toxic Nucleic Acid stains

<b>GENAXXON Product</b>	<b>Cat.-No.</b>
<b>SafeGel red stain - Nucleic acid stain</b> for DNA electrophoresis	<b>M3193</b>
<b>SafeGel green stain - Nucleic acid stain</b> for DNA electrophoresis	<b>M3191</b>
<b>DNA Loading buffer I Fluoro (6x)</b> instant visualization of DNA bands	<b>M3323</b>



## More Recommended Products

<b>GENAXXON Product</b>	<b>Cat.-No.</b>	<b>GENAXXON Product</b>	<b>Cat.-No.</b>
<b>Nuclease and DNA-free Water</b> for PCR. Not DEPC treated	<b>M6340</b>	<b>Random Hexamer Primer N6</b>	<b>M3038</b>
<b>Sterile nuclease-free DEPC Water</b> Sterile water free of DNAses, RNases and Proteinases. Water treated with DEPC	<b>M6082</b>	<b>Uracil-DNA Glycosylase (UDG)</b>	<b>M3096</b>
<b>Oligo dT20 primer</b> First strand cDNA synthesis	<b>M3039</b>	<b>DNA Loading buffer I</b>	<b>M3308</b>
<b>DNA Q-Extraction Solution</b> Non-toxic Solution for easy extraction of PCR-ready DNA	<b>M3231</b>	<b>Coral Red Buffer Dye solution (10x)</b>	<b>M3309</b>



## dNTPs - Mixes and Sets

Recommended GENAXXON Product	Cat.-No.	Concentration/ Amount	Purity (HPLC)
<b>dNTP-Set (Na-salt) - 100 mM</b> 100 mM solution of each dNTP (dA, dC, dG, dT)	<b>M3015</b>	20 $\mu$ mol, 25 $\mu$ mol, 100 $\mu$ mol, 125 $\mu$ mol, 500 $\mu$ mol	>99%
<b>dNTP-Mix (Na-salt) - 10 mM</b> 10 mM solution of a mixture of dA, dC, dG, dT. Each dNTP 10 mM	<b>M3016</b>	200 $\mu$ l, 1 mL	>99%
<b>PCR dNTP-Mix (Na-salt) - 2 mM</b> Ready to use 2 mM solution of a mixture of dA, dC, dG, dT. Each dNTP 2 mM	<b>M3017</b>	1 mL, 5mL	>99%
<b>Modified Nucleotides</b> <b>Biotin-11-dUTP solution</b>	<b>M3428</b>	100 $\mu$ l, 1mL	>99%

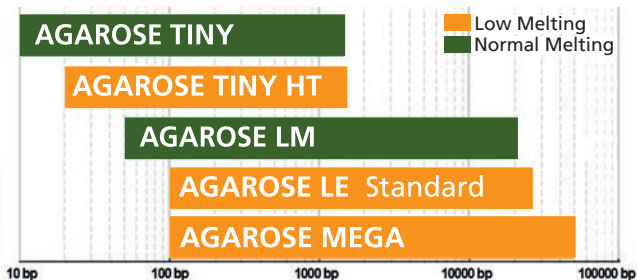
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# Agaroses

Separation Properties of GENAXXON Agaroses



GENAXXON offers a wide range of agarose types that are specifically engineered to optimize results by fragment size, sample type and application.

The GENAXXON selection chart will get you started!

Agarose LE is the most trusted by our customers and the first choice for PCR analytics (DNA electrophoresis).

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# Agaroses

Recommended  
GENAXXON Product

Cat.-No.

Separation range

## Standard Agarose

**Standard Agarose LE**  
Standard agarose

**M3044**

0.1 kb up to 25 kb

## Special agaroses for small fragments

**Low Melting Agarose Tiny**  
high resolution

**M3046**

10 bp up to 1500 bp

**High Resolution Agarose Tiny HT**  
Low melting/gelling temperature agarose  
recommended for rapid DNA gel extraction

**M3047**

20 bp up to 1500 bp

## Low melting Agarose

**Agarose LM**  
Low melting agarose for DNA  
isolation from agarose gels

**M3049**

50 bp up to 20 kb

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