

Saisir le nom du produit, le numéro de lot, etc.



Toutes les
photos (3)

Documents



FDS



COO/COA



Fiche des
caractéristiques

KCQS01 ► Sigma-Aldrich.

KiCqStart® SYBR® Green qPCR ReadyMix™

★★★★★ (0)

Low ROX™, for ABI and Stratagene instruments

Synonyme(s):

qPCR master mix, sybr green qPCR

NACRES:

NA.55

Référence	Conditionnement	Disponibilité	Prix	Quantité
KCQS01-250RXN	250 REACTIONS	✓ Disponible pour expédition le 11 octobre 2022	Détails... 329,00 €	– + i
KCQS01-1250RXN	1250 REACTIONS	✓ Only 3 left in stock (more on the way)	Détails... 1 320,00 €	– + i
KCQS01-5000RXN	5000 REACTIONS	✓ Date d'expédition estimée le 25 octobre 2022	4 650,00 €	– + i

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PRODUITS RECOMMANDÉS



Sigma-Aldrich
KCQS02
KiCqStart® SYBR® Green qPCR ReadyMix™
with ROX™ for ABI instruments

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Sigma-Aldrich
KCQS00
KiCqStart® SYBR® Green qPCR ReadyMix™
For Bio-Rad, Cepheid, Eppendorf, Illumina, Corbett, and Roche systems

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PROPRIÉTÉS

Forme	liquid
Utilisation	sufficient for 1250 reactions sufficient for 250 reactions sufficient for 5000 reactions
Caractéristique	dNTPs included hotstart
Conditions de stockage	protect from light
technique(s)	qPCR: suitable
Couleur	colorless

input	purified DNA
Compatibilité	for use with ABI 7500 Fast for use with ABI 7500 for use with ABI QuantStudio for use with ABI ViiA 7 for use with Agilent AriaMx for use with Douglas Scientific IntelliQube for use with Qiagen Rotor-Gene Q for use with Stratagene Mx3000P for use with Stratagene Mx3005P for use with Stratagene Mx4000
detection method	SYBR [®] Green
Expédié(e)s dans	dry ice
Temp. de stockage	-20°C

Vous recherchez des produits similaires ? Visitez [Guide de comparaison des produits](#)

Catégories apparentées

[PCR Reagents & Kits](#)

DESCRIPTION

Description générale

KiCqStart SYBR Green qPCR ReadyMix is a 2X concentrated, ready-to-use master mix that contains all components, except primers and template, for real-time quantitative PCR (qPCR) This unique combination of proprietary buffer, stabilizers, and Hot-Start Taq DNA polymerase delivers maximum PCR efficiency, sensitivity, specificity and robust fluorescent signal using fast, or conventional, cycling protocols with SYBR Green qPCR.

Highly specific amplification is crucial to successful qPCR with SYBR Green I dye technology because this dye binds to and detects any dsDNA generated during amplification. Hot-Start Taq DNA polymerase is antibody mediated to be inactive prior to the initial PCR denaturation step.

Application

KiCqStart[®] SYBR[®] Green qPCR ReadyMix[™] has been used:

- for the amplification and quantification of DNA in real-time PCR (qPCR) assay
- in the amplification and quantification of transcripts in 2-step quantitative reverse transcription polymerase chain reaction (qRT-PCR)
- in the amplification of complementary DNA (cDNA) by real-time PCR (qPCR) assay

PCR applications:

- Gene expression
- DNA quantification
- CHiP

Caractéristiques et avantages

- Assay results in as little as 33 minutes
- Highly efficient and sensitive real-time PCR results
- Little/no optimization required

Composants

2X reaction buffer containing optimized concentrations of MgCl₂, dNTPs (dATP, dCTP, dGTP, dTTP), KiCqStart Taq DNA Polymerase, SYBR Green dye, ROX Reference Dye (for 580-585 nm excitation), and stabilizers

packaging:

250 reactions* = 2 X 1.25 mL tubes

1250 reactions* = 10 X 1.25 mL tubes

5000 reactions* = 1 X 50 mL tube

*number of reactions based on a 20uL volume

Qualité

Kit components are free of contaminating DNase and RNase. KiCqStart[®] SYBR[®] Green qPCR ReadyMix[™], Low ROX is functionally tested in qPCR. Kinetic analysis must demonstrate linear resolution over six orders of dynamic range ($r^2 > 0.995$) and a PCR efficiency > 90%.

Autres remarques

Storage Conditions:

KiCqStart SYBR Green qPCR ReadyMix is stable for 1 year when stored in a constant temperature freezer at -20°C, protected from light. For convenience, it may be stored unfrozen at +2 to +8°C for up to 6 months. After thawing, mix thoroughly before using. Repeated freezing and thawing of the product is not recommended. However, the product demonstrated no loss of performance after 20 freeze-thaw cycles or 2 months at +20°C.

Informations légales

6538 is a trademark of American Type Culture Collection

Applied Biosystems is a registered trademark of Applied Biosystems Corporation or its subsidiaries in the US and/or certain other countries

KiCqStart is a registered trademark of Qiagen Beverly Inc.

Mx3000P is a registered trademark of Agilent Technologies, Inc.

Mx3005P is a registered trademark of Agilent Technologies, Inc.

Mx4000 is a trademark of Agilent Technologies, Inc.

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ReadyMix is a trademark of Sigma-Aldrich Co. LLC

Rotor-Gene is a registered trademark of Qiagen GmbH

SYBR is a registered trademark of Life Technologies

PRODUITS APPARENTÉS

Produit Apparenté

S4438

SYBR® Green JumpStart™ Taq ReadyMix™, for quantitative PCR, MgCl₂ in buffer

[View Pricing](#)

S1816

SYBR® Green JumpStart™ Taq ReadyMix™ for Quantitative PCR, Capillary Formulation, SYBR® Green qPCR reagent for Roche LightCycler® capillary systems

[View Pricing](#)

S5193

SYBR® Green JumpStart™ Taq ReadyMix™, for quantitative PCR, without MgCl₂ in buffer

[View Pricing](#)

S9194

SYBR® Green JumpStart™ Taq ReadyMix™ for High Throughput qPCR, SYBR® Green qPCR reagent, passive reference dye included

[View Pricing](#)

L6544

LuminoCt® SYBR® Green qPCR ReadyMix™, For fast SYBR Green quantitative PCR

[View Pricing](#)

KCQS00

KiCqStart® SYBR® Green qPCR ReadyMix™, For Bio-Rad, Cepheid, Eppendorf, Illumina, Corbett, and Roche systems

[View Pricing](#)

KCQS02

KiCqStart® SYBR® Green qPCR ReadyMix™, with ROX™ for ABI instruments

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KCQS03

KiCqStart® SYBR® Green qPCR ReadyMix™, iQ™, with fluorescein for Bio-Rad systems

[View Pricing](#)

Recommandé(E)(S)

G1N70

GenElute™ Mammalian Genomic DNA Miniprep Kits, sufficient for 70 purifications

[View Pricing](#)

RTN70

GenElute™ Mammalian Total RNA Miniprep Kit, sufficient for 70 purifications

[View Pricing](#)

NA2010

GenElute™ Blood Genomic DNA Kit, sufficient for 70 purifications

[View Pricing](#)

RDRT

ReadyScript® cDNA Synthesis Mix, Complete reagent for first strand cDNA synthesis for RT-qPCR

[View Pricing](#)

KSPQ12012

KiCqStart® SYBR® Green Primers, Predesigned primers for gene expression analysis

[View Pricing](#)

KSGA2013

KiCqStart® SYBR® Green Primers Gene Arrays, Primer arrays for expression analysis of gene families

[View Pricing](#)

INFORMATIONS SUR LA SÉCURITÉ

Code de la classe de stockage

12 - Non Combustible Liquids

WGK

WGK 3

Flash Point(F)

Not applicable

Point d'éclair C

Not applicable

DOCUMENTATION

Certificat d'analyse

Saisir un numéro de lot pour rechercher un certificat d'analyse (COA).

Numéro de lot

e.g. 023J5431

Comment saisir un numéro de lot (COA)

Rechercher

Certificat d'origine

Saisir un numéro de lot pour rechercher un certificat d'origine (COO).

Numéro de lot

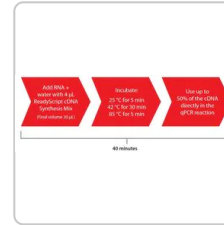
e.g. 023J5431

Comment saisir un numéro de lot (COO)

Rechercher



for Bio-Rad, Cepheid, Eppendorf, Illumina, Corbett, and Roche systems

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Complete reagent for first strand cDNA synthesis for RT-qPCR

[Consulter le prix et la disponibilité](#)

ARTICLES REVUS PAR DES PAIRS

Engineered zinc-finger transcription factors activate OCT4 (POU5F1), SOX2, KLF4, c-MYC (MYC) and miR302/367

<BIG><BIG>Ji Q, et al.</BIG></BIG>

Nucleic Acids Research, 42, 6158-6167 (2014)

Plasmodium falciparum EPCR-binding PfEMP1 expression increases with malaria disease severity and is elevated in retinopathy negative cerebral malaria.

Estela Shabani et al.

BMC medicine, 15(1), 183-183 (2017-10-14)

Expression of group A and the A-like subset of group B *Plasmodium falciparum* erythrocyte membrane protein 1 (PfEMP1) is associated with severe malaria (SM). The diversity of var sequences combined with the challenges of distinct classification of patient pathologies has

Plasmodium falciparum EPCR-binding PfEMP1 expression increases with malaria disease severity and is elevated in retinopathy negative cerebral malaria

<BIG><BIG>Shabani E, et al.</BIG></BIG>
BMC Medicine, 15, 183-183 (2017)

Use of lectin-magnetic separation (LMS) for detecting *Toxoplasma gondii* oocysts in environmental water samples.

Jemere Bekele Harito et al.
Water research, 127, 68-76 (2017-10-17)

Proof-of-principle of lectin-magnetic separation (LMS) for isolating *Toxoplasma* oocysts (pre-treated with 0.5% acidified pepsin (AP)) from water for subsequent detection by microscopy or molecular methods has been shown. However, application of this technique in the routine water-analysis laboratory requires that

Lectin-magnetic separation (LMS) for isolation of *Toxoplasma gondii* oocysts from concentrated water samples prior to detection by microscopy or qPCR.

Jemere Bekele Harito et al.
Water research, 114, 228-236 (2017-03-02)

Although standard methods for analyzing water samples for the protozoan parasites *Cryptosporidium* spp. and *Giardia duodenalis* are available and widely used, equivalent methods for analyzing water samples for *Toxoplasma gondii* oocysts are lacking. This is partly due to the lack

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PROTOCOLES ET ARTICLES SCIENTIFIQUES

Articles

PCR/qPCR Data Analysis

After a traditional PCR has been completed, the PCR/qPCR data analysis is conducted by resolution through an agarose gel or, more recently, through a capillary.

PCR Assay Optimization and Validation

PCR assay guide navigates you through primer validation and other assay optimization factors to ensure high sensitivity and specificity for optimum DNA/ RNA quantification.

Ago RIP to Isolate microRNA and their Targets Using Imprint® RNA Immunoprecipitation Kit

Sigma's Imprint RNA Immunoprecipitation Kit was used to copurify human argonaute 2 (Ago2)-associated RNAs from HeLa cells. MicroRNAs reverse transcribed and quantitating using Mysticq reagents.

Quantitative PCR Basics

Real-time polymerase chain reaction allows researchers to estimate the quantity of starting material in a sample. It has a much wider dynamic range of analysis than conventional PCR

Protocoles

KiCqStart™ Universal SYBR® Green qPCR Protocol

Quantitative PCR protocol using SYBR Green reagents. Procedure supports most qPCR instruments.

qPCR Reference Gene Selection Protocol

Analysis of gene expression data requires a stable reference or loading control. This reference is usually one or more reference genes.

Primer Optimization Protocol Using Temperature Gradient

Gradient PCR for assay optimization is to determine the optimum annealing temperature (T_a) of the primers by testing identical reactions containing a fixed primer concentration, across a range of annealing temperatures.

qPCR Efficiency Determination Protocol

Once an assay has been optimized, it is important to verify the reaction efficiency. This information is important when reporting and comparing assays. In this example protocol, the assay efficiency is compared over a wide and narrow dynamic range of cDNA concentrations.

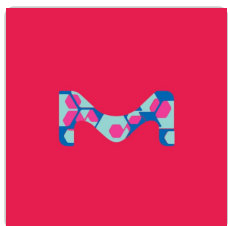
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Contenu apparenté

SYBR® Green Based Quantitative PCR

SYBR® Green I, a commonly used fluorescent DNA binding dye, binds all double-stranded DNA and detection is monitored by measuring the increase in fluorescence throughout the cycle. Explore our LuminoCt® and KiCqStart® products for Fast qPCR or JumpStart™ reagents for...

PRODUITS CONSULTÉS RÉCEMMENT



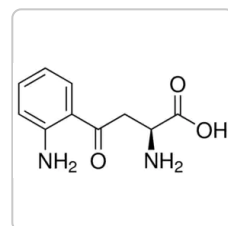
Sigma-Aldrich

KAA002

Cellular Senescence Assay

Cellular Senescence Assay Kits provide all the reagents required to efficiently detect SA-β-gal activity at pH 6.0...

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Sigma-Aldrich

K8625

L-Kynurenine

≥98% (HPLC)

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Notre équipe de scientifiques dispose d'une expérience dans tous les secteurs de la recherche, notamment en sciences de la vie, science des matériaux, synthèse chimique, chromatographie, analyse et dans de nombreux autres domaines..

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