



Toutes les
photos (2)

Documents

↓ FDS

Q COO/COA

11277073910 Roche

DIG RNA Labeling Mix

sufficient for 20 reactions, solution

Synonyme(s):

nucleic acid labeling

Référence	Conditionnement	Disponibilité	Prix	Quantité
11277073910	40 µL	 Disponible pour expédition le 01 octobre 2022	Détails... 213,00 €	— + 

[Demander une commande en gros](#)

[Ajouter au panier](#)

PRODUITS RECOMMANDÉS



Roche

11175025910

DIG RNA Labeling Kit (SP6/T7)

sufficient for 2 x 10 labeling reactions, kit of 1 (12 components), suitable for hybridization, suitable for...



Roche

11093274910

Anti-Digoxigenin-AP, Fab fragments

from sheep

[Consulter le prix et la disponibilité](#)[Consulter le prix et la disponibilité](#)

PROPRIÉTÉS

Forme	solution
Niveau de qualité	100
Utilisation	sufficient for 20 reactions
Conditionnement	pkg of 40 µL
manufacturer/tradename	Roche
Caractéristiques du produit alternatif plus écologique	Designing Safer Chemicals Learn more about the Principles of Green Chemistry .
Autre catégorie plus écologique	Aligned
Expédié(e)s dans	dry ice
Temp. de stockage	-20°C

Catégories apparentées

[Greener Alternative Products](#)[Nucleic Acid Labeling](#)[Roche® Life Science Products](#)

DESCRIPTION

Description générale

Labeling efficiency: Approximately 10µg of full-length digoxigenin-labeled RNA is transcribed from 1µg linear template DNA.

Assay Time: 135 minutes

Sample Materials

Linearized plasmid DNA:

The DNA to be transcribed is cloned into the polylinker site of an appropriate transcription vector which contains adjacent to the polylinker a promoter for SP6, T7 or T3 RNA polymerase. For the synthesis of 'run off' transcripts the plasmid is linearized by a restriction enzyme. Restriction enzymes creating 5'-overhangs should be used; 3' overhangs should be avoided. The linearized template DNA should be purified by phenol chloroform extraction and ethanol precipitation, to avoid RNase contamination. For 'run around' transcription circular plasmid DNA is used.

PCR product:

PCR-fragments which contain RNA polymerase promoter sequences can also be used as templates for transcription. Purification of the PCR fragment by HighPure column purification prior to transcription is recommended.

DIG-labeled, single-stranded RNA probes of defined length are generated by in vitro transcription. DIG-11-UTP is incorporated by SP6, T7, and T3 RNA polymerases at approximately every 20 to 25th nucleotide of the transcript under standard conditions. The DIG RNA Labeling Mix is specifically designed for the use with SP6, T7, and T3 RNA polymerases, which are supplied with an optimized transcription buffer.

Convenient nucleotide mixture for the labeling of RNA with Digoxigenin-11-UTP.

Contents

10x solution with: 10 mM ATP, CTP, GTP (each), 6.5 mM UTP, 3.5 mM DIG-11-UTP.

We are committed to bringing you Greener Alternative Products, which adhere to one or more of The 12 Principles of Greener Chemistry. This product is designed as a safer chemical. The DIG System was established as a sensitive and cost-effective alternative to using radioactivity for the labeling and detection of nucleic acids. There are many available publications that prove the versatility of the DIG System, so use of radio-labeling is no longer the only option for labeling of DNA for hybridization.

Spécificité

Heat inactivation: Stop the reaction by adding 2 µl 0.2 M EDTA (pH 8.0).

Application

RNA labeling with Digoxigenin-11-UTP by *in vitro* transcription with SP6, T7, and T3 RNA polymerases. DIG-labeled RNA is used in a variety of hybridization techniques:

- Northern blots
- Southern blots
- Dot blots
- Plaque or colony lifts
- RNase protection experiments
- Chromosomes, cells, and tissue sections *in situ*

Caractéristiques et avantages

The DIG RNA Labeling Mix is especially designed for the use with SP6,T7 and T3 RNA polymerases from Roche which are supplied with an optimized transcription buffer.

Qualité

Function tested in the DIG RNA Labeling Kit and in the DIG Nucleic Acid Detection Kit.

Autres remarques

For life science research only. Not for use in diagnostic procedures.

INFORMATIONS SUR LA SÉCURITÉ

Pictograms



GHS07

Mention d'avertissement

Warning

Mentions de danger

H302

Conseils de prudence

P264 - P270 - P301 + P312 +
P330 - P501

Classification des risques

Acute Tox. 4 Oral

Code de la classe de stockage

12 - Non Combustible Liquids

WGK

WGK 1

Flash Point(F)

does not flash

Point d'éclair C

does not flash

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

LES CLIENTS ONT ÉGALEMENT CONSULTÉ



Roche

11175033910

DIG DNA Labeling Kit

sufficient for 40 labeling reactions, kit of 1 (7 components), suitable for hybridization

[Consulter le prix et la disponibilité](#)



Roche

11685597910

Biotin RNA Labeling Mix

sufficient for 20 reactions (transcription), pkg of 40 µL, solution

[Consulter le prix et la disponibilité](#)

ARTICLES REVUS PAR DES PAIRS

Experience-dependent gene expression in adult visual cortex.

Jiabin Chen et al.

Cerebral cortex (New York, N.Y. : 1991), 20(3), 650-660 (2009-07-03)

Experience-dependent plasticity of the adult visual cortex underlies perceptual learning and recovery of function following central nervous system lesions. To reveal the signal transduction cascades involved in adult cortical plasticity, we utilized a model of remapping of cortical topography following

The Ccr4-Not deadenylase complex constitutes the main poly(A) removal activity in *C. elegans*.

Marco Nousch et al.

Journal of cell science, 126(Pt 18), 4274-4285 (2013-07-12)

Post-transcriptional regulatory mechanisms are widely used to control gene expression programs of tissue development and physiology. Controlled 3' poly(A) tail-length changes of mRNAs provide a mechanistic basis of such regulation, affecting mRNA stability and translational competence. Deadenylases are a conserved

Reciprocal signaling between the ectoderm and a mesendodermal left-right organizer directs left-right determination in the sea urchin embryo.

Nathalie Bessodes et al.

PLoS genetics, 8(12), e1003121-e1003121 (2012-12-29)

During echinoderm development, expression of nodal on the right side plays a crucial role in positioning of the rudiment on the left side, but the mechanisms that restrict nodal expression to the right side are not known. Here we show

The relationship between *dlx* and *gad1* expression indicates highly conserved genetic pathways in the zebrafish forebrain.

Ryan B MacDonald et al.

Developmental dynamics : an official publication of the American Association of Anatomists, 239(8), 2298-2306 (2010-07-27)

The *Dlx* genes encode a family of transcription factors important for the development of the vertebrate forebrain. These genes have very similar expression domains during the development of the telencephalon in mice and play a role in gamma-aminobutyric acid (GABAergic)

Endoderm development in *Caenorhabditis elegans*: the synergistic action of ELT-2 and -7 mediates the specification→differentiation transition.

Erica M Sommermann et al.

Developmental biology, 347(1), 154-166 (2010-09-03)

The transition from specification of cell identity to the differentiation of cells into an appropriate and enduring state is critical to the development of embryos. Transcriptional profiling in *Caenorhabditis elegans* has revealed a large number of genes that are expressed

Afficher tous les articles scientifiques apparentés

PROTOCOLES ET ARTICLES SCIENTIFIQUES

Articles

Digoxigenin (DIG) Labeling Methods

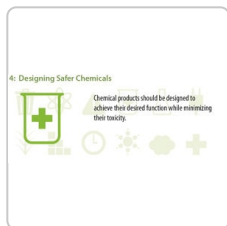
Digoxigenin (DIG) labeling methods and kits for DNA and RNA DIG probes, random primed DNA labeling, nick translation labeling, 5' and 3' oligonucleotide end-labeling.

Protocoles

DIG RNA Labeling Mix Protocol Troubleshooting

Determine the labeling efficiency in terms of μg (expected yield of a standard labeling reaction is 20 μg of DIG labeled RNA per μg linearized template DNA after the DIG RNA labeling reaction).

PRODUITS CONSULTÉS RÉCEMMENT



Roche

11277065910

DIG DNA Labeling Mix

[Consulter le prix et la disponibilité](#)



Roche

11277057001

Ribonucleoside Triphosphate Set

pkg of 4 x 200 μL (4 x 20 μmol ; 100 mM, each), suitable for DNA sequencing, >98% (HPLC)

[Consulter le prix et la disponibilité](#)

SERVICE TECHNIQUE

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..

[Contacter notre Service technique](#)

Le contenu de cette page vous a-t-il été utile ?*



Que pouvons-nous faire pour améliorer cette page spécifique de notre site Internet ?

Envoyer

