



STRN50 Sigma-Aldrich

Spectrum™ Plant Total RNA Kit

 sufficient for 50 purifications



[FDS](#) [Bulletin \(PDF\)](#)

[Similar Products](#)

Conditionnement - SKU	Disponibilité	Prix (EUR)	Quantité
STRN50-1KT	Expédition estimée le 21.08.19	258.00	0

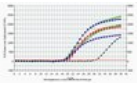
[Bulk orders?](#)

[AJOUTER AU PANIER](#)

Product Recommendations



DNASE70
On-Column DNase I Digestion Set
sufficient for 70 preparations



E4788
Plant RNA/DNA Purification Kit
sufficient for 50 purifications



DNASE10
On-Column DNase I Digestion Set
sufficient for 10 preparations

Properties

Related Categories	12 Principles Aligned Products, Chemical Synthesis, Greener Alternative Products, Life Sciences, Molecular Biology, Plus...
usage	sufficient for 50 purifications
greener alternative product characteristics	Designing Safer Chemicals Learn more about the Principles of Green Chemistry .
storage temp.	20-25°C

Description

- Features and Benefits**
- Yields up to 60 µg of pure concentrated RNA per prep
 - Efficient protocol allows for RNA purification in 30 min or less
 - Specially designed for research with difficult plant tissues

General description
Sigma Life Science is committed to bringing you Greener Alternative Products, which adhere to one or more of The 12 Principles of Greener Chemistry. This product has Inherently Safer Chemistry.

The Spectrum Plant Total RNA Kit utilizes a lysis and binding chemistry and a convenient column-based 'bind-wash-and-elute' format to purify up to 100 µg of total RNA from 100 mg of tissue in about 30 minutes. Typical yields range from 20–60 µg.

After grinding tissue to a fine powder in liquid nitrogen, cells are lysed and cellular debris is physically and chemically separated from endogenous RNA. RNA is then bound to a column supported silica substrate and several wash steps remove remaining contaminants.

Total RNA is eluted from the column and used in typical applications, such as Northern Blots, and RT- and qRT-PCR.

Application
Spectrum® Plant Total RNA Kit has been used to isolate RNA from ground fiber tissue of cultured cotton fiber, from neem tissues and from *Sarracenia*, an insectivorous plant.^{[1][2][3]}

Legal Information
SabreLite is a registered trademark of Pelican Products, Inc.

Spectrum is a trademark of Sigma-Aldrich Co. LLC

Safety Information

Symbol	 GHS06, GHS08, GHS09
Signal word	Danger
Hazard statements	H301 + H331-H310-H315-H317-H318-H335-H373-H410
Precautionary statements	P261-P273-P280-P301 + P310-P302 + P350-P305 + P351 + P338
RIDADR	UN 3316 9

Documents

Certificat d'Analyse

Enter Lot No.

Devis/ Commande de produits Bulk

FDS

STRN50 - Bulletin (335KB)

Customers Also Viewed

E4913
Plant/Fungi RNA Purification Kit
sufficient for 50 purifications

G2N70
GenElute™ Plant Genomic DNA Miniprep Kit
sufficient for 70 purifications

83913
RNA isolation kit
BioUltra, for molecular biology

RNB100
GenElute™ Total RNA Purification Kit

B9560
Binding Solution

Recently Viewed

STRN250
Spectrum™ Plant Total RNA Kit
sufficient for 250 purifications

STRN10
Spectrum™ Plant Total RNA Kit
sufficient for 10 purifications

C5291
Spectrophotometer cuvettes, polystyrene
Without stopper

C5677
Spectrophotometer cuvettes, polystyrene
With stopper

C5416
Spectrophotometer cuvettes, polystyrene
Semi-micro without stopper

SAME PRODUCT
NEW PACKAGE

Our new packaging features 2D barcodes to provide you with more information about our products.

LEARN MORE

Protocols & Articles

Articles

Sample Purification & Quality Assessment - PCR Technologies Guide

The availability of simple methods for purification of DNA and RNA has greatly facilitated the analysis and characterization of the genome and gene expression. There is a demand to isolate DNA and RN...
Keywords: AGE, Absorption, Amplification, Bio-Analytical, Buffers, Capillary electrophoresis, Cell disruption, Centrifugation, Chromatin immunoprecipitation, DNA purification, Degradations, Detection methods, Detergents, Digestions, Electrophoresis, Extinction coefficient, Filtration, Gel electrophoresis, Gene expression, Indicators, Lab-on-a-chip, Molecular biology, Nucleic acid hybridization, Nucleic acid purification, Polymerase chain reaction, Polymerase chain reaction - quantitative, Precipitation, Purification, RNA purification, Separation, Spectroscopy, Transcription, Ultraviolet-Visible spectroscopy

Peer-Reviewed Papers

Did you use this product in your Paper? If so click here.

- A synthetic auxin (NAA) suppresses secondary wall cellulose synthesis and enhances elongation in cultured cotton fiber. Singh B, et.al Plant Cell Reports 28(7), 1023-1032, (2009)
[read abstract](#)
- Comprehensive analyses of genomes, transcriptomes and metabolites of neem tree.

Nagesh A Kuravadi et. al
PeerJ, 3, undefined (2015-8-21)
Neem (Azadirachta indica A. Juss) is one of the most versatile tropical evergreen tree species known in India since the Vedic period (1500 BC-600 BC). Neem tree is a rich source of limonoids, having a wide spectrum of activity against insect pests an...[Read More](#)
Transcriptome analysis of sarracenia, an insectivorous plant. Srivastava A, et.al DNA Research : An International Journal for Rapid Publication of Reports on Genes and Genomes 18(4), 253-261, (2011)

[read abstract](#)

Validation of reference genes as internal control for studying viral infections in cereals by quantitative real-time RT-PCR.
Jana Jarosová and Jiban K Kundu
BMC plant biology, 10, undefined (2010-7-16)
Reference genes are commonly used as the endogenous normalisation measure for the relative quantification of target genes. The appropriate application of quantitative real-time PCR (RT-qPCR), however, requires the use of reference genes whose level o...[Read More](#)

[read abstract](#)

A combined functional and structural genomics approach identified an EST-SSR marker with complete linkage to the Ligon lintless-2 genetic locus in cotton (Gossypium hirsutum L.).
Doug J Hinchliffe et. al
BMC genomics, 12, undefined (2011-9-10)
Cotton fiber length is an important quality attribute to the textile industry and longer fibers can be more efficiently spun into yarns to produce superior fabrics. There is typically a negative correlation between yield and fiber quality traits such...[Read More](#)

[read abstract](#)

A genome-wide characterization of microRNA genes in maize.
Lifang Zhang et. al
PLoS genetics, 5(11), undefined (2009-11-26)
MicroRNAs (miRNAs) are small, non-coding RNAs that play essential roles in plant growth, development, and stress response. We conducted a genome-wide survey of maize miRNA genes, characterizing their structure, expression, and evolution. Computations...[Read More](#)

[read abstract](#)

Increased drought tolerance through the suppression of ESKMO1 gene and overexpression of CBF-related genes in Arabidopsis.
Fuhui Xu et. al
PloS one, 9(9), undefined (2014-9-4)
Improved drought tolerance is always a highly desired trait for agricultural plants. Significantly increased drought tolerance in Arabidopsis thaliana (Columbia-0) has been achieved in our work through the suppression of ESKMO1 (ESK1) gene expression...[Read More](#)

Related Products

Related Product

Product #	Description	Add to Cart
AMPD1	DNase I, Amplification Grade	prix
DNASE70	On-Column DNase I Digestion Set, sufficient for 70 preparations	prix
STRN10	Spectrum™ Plant Total RNA Kit, sufficient for 10 purifications	prix
STRN250	Spectrum™ Plant Total RNA Kit, sufficient for 250 purifications	prix