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





Toutes les photos (1)

MAK307

Malachite Green Phosphate Assay Kit

★★★★★ (0)

sufficient for 2500 colorimetric tests

NACRES: NA.84

Documents

-  FDS
-  COO/COA

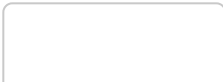
 Fiche des caractéristiques

Référence	Conditionnement	Disponibilité	Prix	Quantité
MAK307-1KT	1 KIT	 Only 3 left in stock (more on the way)	Détails... 278,00 €	- + 

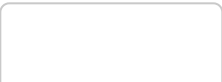
Demander une commande en gros

Ajouter au panier

PRODUITS RECOMMANDÉS



Sigma-Aldrich
MAK308



Sigma-Aldrich
MAK113

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PROPRIÉTÉS

Utilisation	sufficient for 2,500 colorimetric tests
detection method	colorimetric
Temp. de stockage	2-8°C

Catégories apparentées

Metabolism Assay Kits

DESCRIPTION

Description générale

Phosphate is one of the most abundant minerals in the human body and contains about 1 % of total body weight. Phosphate homeostasis is maintained by the several regulators such as parathyroid hormone (PTH), calcitriol and phosphatonins. Maintenance of phosphate homeostasis is essential for various biological processes, such as energy metabolism, cell signaling, regulation of protein synthesis, skeletal development and bone integrity.† An adequate level of phosphate is needed for the

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Application

Malachite Green Phosphate Assay Kit has been used in phosphate quantification and steady-state kinetics.

Malachite Green Phosphate Assay Kit has been used to measure the liberation of free orthophosphate in the following applications:

- Phosphatase Assays: liberation of phosphate from peptide, protein, or small molecule substrate.
- Lipase Assays: liberation of phosphate from phospholipids
- Nucleoside Triphosphatase Assays: liberation of phosphate from nucleoside triphosphates (ATP, GTP, TTP, CTP etc).
- Quantitation of phosphate in phospholipids, proteins and DNAs, etc.
- Drug Discovery: high-throughput screen for phosphatase inhibitors.

Caractéristiques et avantages

Compatible with high-throughput handling systems.

Adéquation

Suitable for phosphate determination in a variety of biological and environmental samples.

Principe

Malachite Green is a basic dye belonging to the triphenylmethane group. It is used in biology for the staining of microscopic samples, such as plant tissue, yeast and bacteria. The malachite green method is a sensitive method for the detection of released phosphate.†† The Malachite Green Phosphate Assay Kit is based on quantification of the green complex formed between Malachite Green, molybdate and free orthophosphate. The rapid color formation from the reaction can be conveniently measured on a spectrophotometer (600 - 660 nm) or on a plate reader. The non-radioactive colorimetric assay kits have been optimized to offer superior sensitivity and prolonged shelf life. The assay is simple and fast, involving a single addition step for phosphate

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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

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Rechercher

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ARTICLES REVUS PAR DES PAIRS

Transcriptomic analysis at organ and time scale reveals gene regulatory networks controlling the sulfate starvation response of *Solanum lycopersicum*.

Javier Canales et al.

BMC plant biology, 20(1), 385-385 (2020-08-25)

Sulfur is a major component of biological molecules and thus an essential element for plants. Deficiency of sulfate, the main source of sulfur in soils, negatively influences plant growth and crop yield. The effect of sulfate deficiency on plants has

Pho4 Is Essential for Dissemination of *Cryptococcus neoformans* to the Host Brain by Promoting Phosphate Uptake and Growth at Alkaline pH.

Sophie Lev et al.

mSphere, 2(1) (2017-02-02)

Phosphate acquisition by fungi is regulated by the phosphate-sensing and acquisition (PHO) signaling pathway. *Cryptococcus neoformans* disseminates from the lung to the brain and is the commonest cause of fungal meningitis worldwide. To investigate the contribution of PHO signaling to

Methods in Plant Cell Biology, 50 (1995)

DAF-16/FOXO requires Protein Phosphatase 4 to initiate transcription of stress resistance and longevity promoting genes.

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SMK-1/SMEK

Pho4 Is Essential for Dissemination of *Cryptococcus neoformans* to the Host Brain by Promoting Phosphate Uptake and Growth at Alkaline pH.

Lev S, et al.

mSphere, 2(1), e00381-e00316 (2017)

[Afficher tous les articles scientifiques apparentés](#)

PRODUITS CONSULTÉS RÉCEMMENT



Sigma-Aldrich

MAK293

Collagenase Activity Colorimetric Assay Kit
sufficient for 100 colorimetric tests

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Sigma-Aldrich

MAK246

Neutrophil Elastase Activity Assay Kit
(Fluorometric)
sufficient for 100 fluorometric tests

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Évaluations



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