

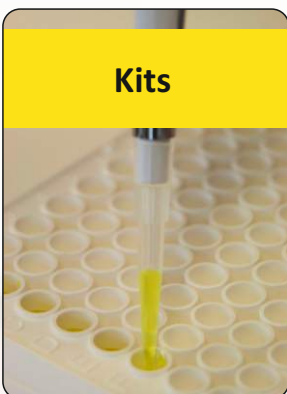
APPLICATION AREAS

- ▶ Rapid Microbiology
- ▶ Hygiene Control
- ▶ Immunoassays
- ▶ Reporter gene assays
- ▶ Cell Proliferation & Toxicity
- ▶ Enzymatic monitoring

News..!!
BioThema D-Luciferin,
has the highest purity
among 8 manufacturers

PRODUCTS OFFERED

Kits



Luminometers



**Single Reagents
for all Kits**



Marketed in India by:

Biogenuix[®]

Products manufactured by BioThema

Biogenuix Medsystems Pvt. Ltd.

412-B, Jyoti Shikhar Building, District Center, Janakpuri, New Delhi-110058, INDIA

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REPORTER GENE ASSAY KITS

BioThema's Reporter gene assay kits are based on that the firefly luciferase *luc* gene is one of the most commonly used reporter genes and allows the monitoring of promoter activity in the control of gene expression and also used for **in vivo imaging** which is becoming popular in the scientific community and require substantial amounts of D-Luciferin, as the entire animal is injected.

BENEFITS

- Firefly luciferase is not present in normal cells.
- The assay is simple and easy to perform.
- No background.
- Extreme sensitivity (10^{-20} moles luciferase can be detected).
- Reliability of results.
- You can use both simple, manual, luminometers as well as fully automatic microplate luminometers.
- It is an interesting option to CAT assays and non-luminescent reporter gene assays.

ADVANTAGES

- It is suitable for HTS.
- BioThema luciferin provides more light than any other D-luciferin in the market due to its extreme purity.
- The reagents contain special activators to counteract any inactivation of the luciferase enzyme during cell culture or sample storage.
- The stability of D-luciferin is greatest at pH 6-7.

D-Luciferin is available as a powder in following three versions:

- a.) **Acid Form**, which can easily be dissolved in an equimolar amount of Potassium Bicarbonate (KHCO_3) or Sodium Bicarbonate (NaHCO_3) but not in pure water.
- b.) **Potassium Salt**, which can be dissolved in water.
- c.) **Sodium Salt**, which can be dissolved in water.

Any of the above three versions of D-Luciferin can be used for *in vivo* imaging.

Kit Components:

- » Luciferin Substrate*
- » ATP Substrate
- » Tris-EDTA Buffer

Kits Available

484-001 LUCIFERASE ASSAY KIT

- ♦ Kit contains reagents for 800 *in vitro* assays.

484-102 LAS HTS KIT

- ♦ Kit contains reagents for 4800 assays.
- ♦ Suitable if you want to perform the assay as HTS and have a luminometer without dispensers.

484-103 LAS HTS KIT

- ♦ Kit contains reagents for 4600 assays.
- ♦ Suitable if you want to perform the assay as HTS and have a luminometer with dispensers.

* The Luciferin substrate in all the three kits is supplied as sodium salt with stabilizers for its easy dissolution in water.

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