



RedLight Product Specifications

PRODUCT NAME

RedLight

ASSAY PRINCIPLE

The RedLight assay measures the bacterial oxygen consumption and equates the O₂ consumption compound, genetic manipulation or growth conditions. The assay is based on the ability of dissolved O₂ to quench the phosphorescence of a soluble, oxygen sensitive probe. As bacteria from the sample grow and respire in test medium, at a certain time point they start to deplete O₂ in the surrounding solution, which is seen as an increase in probe signal above baseline level. The time required to reach this threshold signal is then correlated to treatment condition

ASSAY FORMAT

The assay is a simple 'mix and measure' test. Samples are prepared, dispensed in the wells of a standard 96-well plate together with the Redlight oxygen-sensing probe, covered with mineral oil to exclude ambient O₂ and measured on a fluorescence plate reader at 30°C in kinetic mode.

PRODUCT DESCRIPTION

The RedLight oxygen probe is supplied as a dry, stable, soluble reagent, which is reconstituted for use measurement buffer. One vial of RedLight probe is used per one 96-well plate (dispensed 100 µL per well).

RedLight; complete kit contains: 1 vial with RedLight-1X probe; 1 sterile-packed standard 96-Well plate with lid; 1 plastic tube for probe dilution; 1 sheet of adhesive film and one bottle of mineral oil.



RedLight Materials Safety Data Sheet

PRODUCT NUMBER

RedLight

CATALOGUE NUMBER

RL-100

UNIT SIZE

1 vial of RedLight oxygen probe per product

REDLIGHT PROBE MANUFACTURE

Luxcel Biosciences Ltd.
BioInnovation Centre,
UCC,
Cork, Ireland.

Tel: +353 (0)21 490 14 47

Fax: +353 (0)21 481 18 01

Email: info@luxcel.com

Web: www.luxcel.com

COMPOSITION

Dry, water-soluble material comprising a phosphorescent dye conjugated to an inert biopolymer.

REDLIGHT HANDLING AND STORAGE

Dry material: store at +4°C (until the indicated expiry date).

Reconstituted product (aqueous stock): store at -20°C.

Diluted probe stock: use on the same day.

Protect products from prolonged exposure to light, may be exposed to light for short time periods.

OTHER INFORMATION

This material is not considered as hazardous, it is not present above 1%, nor is it a carcinogen above 0.1% as defined in 29 CFR 1910.1200, the OSHA Hazard Communication Standard. Therefore, a Material Data Sheet is not required. We recommend treating all chemicals with caution.

This material is sold for research purposes only and is not required to appear in TSCA inventory. It is not intended for food, drug, household, agricultural or cosmetic use. It must be supervised by a technically qualified individual experienced in handling potentially hazardous chemicals. The above information is correct to the best of our knowledge. Users should make independent decisions regarding completeness of the information based on all sources available. Luxcel Biosciences shall not be liable for any damage resulting from handling or contact with the above product