



Phagocytosis Assay Kit

Product Information

Cat.No.

Kit-2102

Product Overview

Phagocytosis Assay Kit (Green Zymosan) utilizes pre-labeled Zymosan particles as a tool for rapid and accurate detection and quantification of in vitro phagocytosis by fluorescent microscope, spectrophotometer or flow cytometry. Our kit provides a robust screening system for activators and/or inhibitors of phagocytosis and Tolllike receptors ligands (TLR).

Size

100 assays

Description

Phagocytosis in mammals serves as an important first line defense mechanism against invading pathogens. It is also essential for continuous clearance of dying cells, tissue remodeling, and acquisition of nutrients for some cells. Phagocytosis is a specific form of endocytosis initiated by recognition and binding of foreign particles by cell surface receptors, followed by their engulfment, and formation of phagosomes. Maturing phagosomes transform to phagolysosomes which destroy the pathogen through enzymes and toxic peroxides. Zymosan prepared from yeast cell wall (*Saccharomyces cerevisiae*), and consisting of protein-carbohydrate complexes is frequently used as a pathogen in phagocytosis assays.

Applications

Rapid detection, quantification and validation of phagocytosis in convenient 96-well format
Tracking ligand internalization and screening for effectors of phagocytosis

Target Species

Mammalian

Storage

Store the entire kit at 4°C protected from light. Read the entire protocol before performing the



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assay. Green Zymosan: Before each use, equilibrate the suspension to room temperature and vortex gently for 5 seconds. Quenching Solution: Dilute the content of the vial into 4.5 ml of 1X Phagocytosis Assay Buffer.

Kit Components

Phagocytosis Assay Buffer: 2 X 90 ml Green Zymosan: 600 µl 10X Quenching Solution: 500 µl

Detection method Fluorescence (Ex/Em = 490/520 nm)

Compatible Sample Types

Phagocytic cell culture: adherent or suspension cells capable of phagocytosis

Features & Benefits

- Simple & Rapid Protocol
- Convenient: Non-Radioactive, no special handling or disposal required
- High-Throughput
