CREATIVE BIOMART®
Assay Kit

# Phagocytosis Assay Kit (Red Zymosan)

## Product Information

**Cat**

Kit-1045

**Common Name**

Phagocytosis

**Cat.No.** Kit-1045

**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. 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 Toll-like receptors ligands (TLR).

**Applications**

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

**Storage**

4°C

**Shipping**

Gel Pack

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|---|---|
| **Size** | |
| 100 assays | |
| **Kit Components** | |
| Phagocytosis Assay Buffer; Red Zymosan; 10X Quenching Solution | |
| **Target Species** | |
| Mammalian | |
| **Detection method** | Fluorescence (Ex/Em = 540/570 nm) |
| **Features & Benefits** | |
| Simple & Rapid Protocol;<br>Convenient: Non-Radioactive, no special handling or disposal required;<br>High-Throughput;<br>Accurate: reproducible results with low intra & inter assay variability | |

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