

## 15-1024: Zymosan

**Application :** Functional Assay

### Description

Formula:  $(C_6H_{12}O_6)_n$

CAS#: 9010-72-4

**Specificity:** TLR2 and Dectin-1 agonist

Zymosan, an insoluble preparation of cell wall from *Saccharomyces cerevisiae*, activates macrophages via TLR2. TLR2 cooperates with TLR6 and CD14 in response to zymosan. Zymosan is also recognized by Dectin-1, a phagocytic receptor expressed on macrophages and dendritic cells, which collaborates with TLR2 and TLR6 enhancing the immune responses triggered by the recognition of Zymosan by each receptor.

### Product Info

**Amount :** 100 mg

**Storage condition :** zymosan is stable at 4°C for 6 months or at -20°C for 12 months

### Application Note

**Solubility:** Insoluble (resuspended zymosan results in a cloudy suspension). Vortex to homogenize, Add 10 ml endotoxin free water

Stimulation of TLR2 can be achieved with 10 µg/ml zymosan.

Stimulation of Dectin-1 can be achieved with 1 - 10 µg/ml zymosan.