Catalase fluorometric detection kit

The Catalase fluorometric detection kit provides a higher throughput sensitive method for measuring catalase activity in just one hour. This is a homogeneous mix-and-read assay that enables you to monitor multiple time points for a kinetic read. Positive control is provided.

Catalase is an antioxidant enzyme that catalyses the decomposition of hydrogen peroxide (H_2O_2) to water and oxygen. Catalase is ubiquitously expressed in mammalian and non-mammalian aerobic cells containing the cytochrome system and functions to alleviate oxidative damage by catalyzing metabolism of the peroxide substrate. Accumulation of H_2O_2 can result in cellular damage through oxidation of proteins, DNA, and lipids, and has been linked to numerous pathologies including inflammation, cancer, diabetes, Parkinson's disease, and Alzheimer's.

Citations: 12 View Online »

Ordering Information

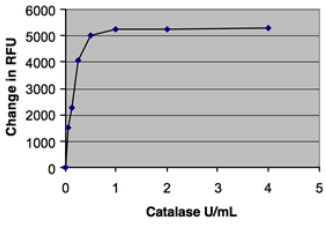
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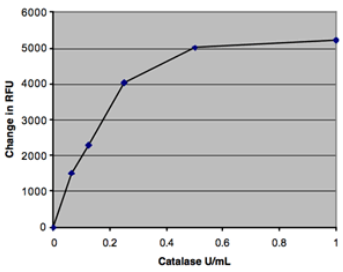
ADI-907-027	500 tests

Manuals, SDS & CofA

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- Homogeneous - mix-and-read format easily adaptable to HTS applications
- Sensitive - fluorescent detection system
- Fast - results in just 1 hour


6000
5000
4000
3000
2000
1000
0
Change in RFU
0
1
2
3
4
5
Catalase U/mL


6000
5000
4000
3000
2000
1000
0
Change in RFU
0
0.2
0.4
0.6
0.8
1
Catalase U/mL

Handling & Storage

Long Term Storage	+4°C
Shipping	Blue Ice

Regulatory Status

RUO - Research Use Only

Product Details

Application	Fluorescent detection, HTS
Application Notes	For the measurement of catalase in cell lysates from any species.
Contents	Reaction buffer concentrate, Detection Reagent, Horseradish peroxidase concentrate, Hydrogen peroxide, Catalase enzyme
Sensitivity	(range 0- 4 U/ml)
Species Reactivity	Species independent
UniProt ID	P00432

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