

ARG82220 Catalase Activity Assay Kit (Colorimetric)

Package: 96 assay
Store at: 4°C

Summary

Product Description	ARG82220 Catalase Activity Assay Kit (Colorimetric) can be used to measure Catalase activity in serum, plasma, cell lysate and tissue lysate.
Tested Reactivity	All
Tested Application	FuncSt
Target Name	Catalase
Conjugation Note	Read at 520 nm.
Sample Type	Serum, plasma, cell lysate and tissue lysate.
Standard Range	1.56 - 100 U/ml
Sample Volume	20 µl
Alternate Names	Catalase; EC 1.11.1.6

Application Instructions

Application Note	Please note that this kit does not include a microplate.
Assay Time	~ 1 hour

Properties

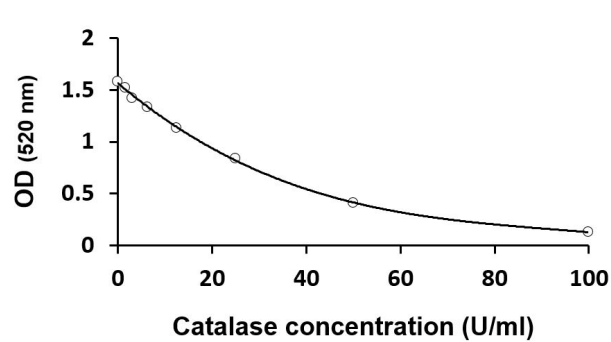
Form	Liquid
Storage instruction	Store the kit at 2-8°C. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	CAT
Gene Full Name	catalase
Background	This gene encodes catalase, a key antioxidant enzyme in the bodies defense against oxidative stress. Catalase is a heme enzyme that is present in the peroxisome of nearly all aerobic cells. Catalase converts the reactive oxygen species hydrogen peroxide to water and oxygen and thereby mitigates the toxic effects of hydrogen peroxide. Oxidative stress is hypothesized to play a role in the development of many chronic or late-onset diseases such as diabetes, asthma, Alzheimer's disease, systemic lupus erythematosus, rheumatoid arthritis, and cancers. Polymorphisms in this gene have been associated with decreases in catalase activity but, to date, acatalasemia is the only disease known to be caused by this gene. [provided by RefSeq, Oct 2009]
Function	Occurs in almost all aerobically respiring organisms and serves to protect cells from the toxic effects of hydrogen peroxide. Promotes growth of cells including T-cells, B-cells, myeloid leukemia cells, melanoma cells, mastocytoma cells and normal and transformed fibroblast cells. [UniProt]

PTM	The N-terminus is blocked. [UniProt]
Cellular Localization	Peroxisome. [UniProt]

Images



ARG82220 Catalase Activity Assay Kit (Colorimetric) standard curve image

ARG82220 Catalase Activity Assay Kit (Colorimetric) results of a typical standard run with optical density reading at 520 nm.