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Enzyme Activity
Guided Inquiry Lab
Turnip Peroxidase
continued 2 21 inn
cientiic Inc A its
eserved Safety
Precautions The
guaiacol solution

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contains isopropyl rubbing alcohol (70%) and is a flammable liquid. Keep away from heat, flames, and other sources of ignition.

Dilute hydrogen peroxide solution (3%) may be irritating to the eyes and skin.

Enzyme Activity Guided Inquiry Lab Turnip Peroxidase ...

Lab 2 Enzymes Turnip Peroxidase Amalia Leon Introduction The

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enzyme used in this experiment was Turnip Peroxidase. These enzymes catalyze the oxidation-reduction decomposition that lower the activation of the reaction and therefore speed up a reaction. Enzymes can be reused repeatedly.

Lab report
ENZYMES.docx - Lab
2 Enzymes Turnip
Peroxidase ...

(Ahmezz2005)
Page 6/24

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Peroxidase is a type of enzyme which is used in the experiment. The type of peroxidase is used is called turnip peroxidase. Turnip peroxidase is made up of Guaiacol and hydrogen peroxide. The reactants to the product are turnip peroxidase or called tertraguaiacol and water.

Absorbance Experiment With

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**Turnip Peroxidase -
822 Words ...**

Turnip Peroxidase In this experiment, you will study the enzyme peroxidase from turnips. Peroxidases are widely distributed in plant and animal cells and catalyze the oxidation of organic compounds by hydrogen peroxide as follows: peroxidase H-R-O-H + H₂O₂ R=O + 2H₂O

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**Enzyme Activity:
Turnip Peroxidase -
Mustang Public
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Peroxidase Lab Report.
8 August 2016.

Determining the
Catalytic Properties of
the Enzyme Peroxidase
Extracted from a
Turnip Under the
Conditions of
Temperature, pH,
Boiling and
Competitive Inhibitors
By Robin Caserta BIO
101 September 30,

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2013 ABSTRACT The enzyme, peroxidase, extracted from a turnip was tested for its efficiency in binding to its substrate and its stability under several conditions.

Peroxidase Lab Report Essay Sample

During this experiment you will study a type of enzyme called peroxidase, which is a large protein containing a heme

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cofactor in its active site. Peroxidase is a good experimental enzyme because it is easily prepared and assayed. Turnips, horseradish roots, and potatoes contain a large amount of this enzyme.

Laboratory 6 Properties Of Enzymes: Turnip Peroxid ...

The experiment
focused on the impact

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of enzyme concentration on enzyme (peroxidase) activity. Turnip extract is the source of peroxidase in the experiment. There was a direct relationship between the enzyme concentration and enzyme activity, and as the enzyme concentration was changed, reaction time was recorded as were the spectrophotometer readings.

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Enzyme (Peroxidase) Concentration And Enzyme Activity, Lab

...

As could be predicted, the purified enzyme from a common soil fungus has a pH optimum of 5.5. The main enzyme for this lab, peroxidase, is found in many different forms, with optimum pHs ranging from 4 to 11 depending on the

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BACKGROUND - AP
Central

The oxygen that is released is used just as respiratory oxygen is used. In fact, the peroxidase reaction is an important source of oxygen for routine use in some metabolic pathways. Like the oxygen-carrying protein hemoglobin, peroxidase has a heme group at its active site; an iron atom in the heme is essential for

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the enzyme to
function.

Properties of the enzyme peroxidase

Peroxidase is an enzyme found in a wide variety of organisms, from plants to humans to bacteria. Its function is to break down hydrogen peroxide (H_2O_2), which is one of the toxins produced as a byproduct of using oxygen for respiration.

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(The fact that it's toxic is what makes hydrogen peroxide useful in first aid kits.

Enzymes - Northern Kentucky University

Peroxidase was obtained from turnips which has many enzymes. First, we needed to find the appropriate enzyme concentration to carry out the out the rest of the experiment. The results were graphed...

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Lab 7: Enzymes - Biology 201 Lab

Adding more peroxidase increased the rate of reaction, and the peroxidase at 30.2°C reacted the quickest out of all the other temperatures. As we increased the pH the rate of the reaction increased and when adding an enzyme inhibitor (hydroxylamine) there was little to no

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reaction.

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**Peroxidase Lab
Report - General
Biology I - SUNY
Orange ...**

The Affects of pH on
Peroxidase Enzyme
Claire Bell Biology
1130 Jazmen Myers
Section 36 Abstract
Peroxidase is a turnip
enzyme; it is used in
the oxidation of
hydrogen peroxide to
lower activation
energy, speeding up

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the reaction. The activity of peroxidase is highly dependent on its environment and most importantly the pH level.

Affects of Ph on Peroxidase Enzyme - 1582 Words | Bartleby

Peroxidase Enzyme Activity . Background: Peroxides are a toxic byproduct of aerobic metabolism.

Peroxidase is . An

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enzyme that breaks down these peroxides. It is produced by most cells in their .

peroxisomes. For this investigation the specific reaction is as follows: Peroxide + Hydrogen Peroxide → Complex → Peroxidase + Water + Oxygen

Peroxidase Enzyme Activity - jeffcopublicschools.org

The Effect of pH on Enzyme Activity The

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pH will have an effect on enzyme activity. As seen through the amount of water displaced, the enzymes in the optimal pH environment of 6 will be the most active, displacing the most water, followed by the basic environment of 9, and the

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enzyme peroxidase

the Catalytic Properties
of the Enzyme

Peroxidase Extracted
from a Turnip Under

the Conditions of
Temperature, pH,

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Boiling and
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101 September 30,
2013 ABSTRACT The
enzyme, peroxidase,
extracted from a turnip
was tested for its
efficiency in binding to
its substrate and its
stability under several
conditions.

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Enzyme kinetics of

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Turnip Peroxidase
Hydrogen peroxide (H_2O_2) is a strong oxidizing agent that can damage cells and is formed as a by-product of oxygen consumption.

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