

New Product Introduction

Innovating Science® by Aldon Corporation

“cutting edge science for the classroom”

AP® Biology Investigation #13: Enzyme Activity

IS3713



Students will learn the nature and specificity of enzyme-catalyzed reactions. Students will then use an extract of turnips to examine the reaction between hydrogen peroxide and the enzyme peroxidase while testing one or more factors that influence the rate of enzyme reactions. In this lab students will develop data collection strategies and analyze their results. This kit contains enough materials for 8 groups. Teachers manual and Student Study Guide copymasters are included. Meets AP Science Practices 4, 5, 6, and 7, and Big Idea 4.

Kit Includes:

1.5mL	Guaiacol concentrate	50ml	1.0% Hydrogen peroxide
100ml	pH 3 Buffer	100ml	pH 5 Buffer
100ml	pH 6 Buffer	100ml	pH 7 Buffer
100ml	pH 8 Buffer	100ml	pH 10 Buffer

Materials needed but not supplied:

	Test tube 16x150mm	8	Test tube racks
16	Graduated pipettes 1ml	8	Graduated pipettes 5ml
16	Graduated pipettes 10ml	8	pipette pumps or pipette bulbs
8	Timers/ Stop watches		Parafilm or Similar
	Distilled or deionized water		

Recommended: Spectrophotometer

DOT: Non-regulated



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Aldon Corporation
221 Rochester St.
Avon, NY 14414
(585) 226-6177
info@aldon-chem.com
www.aldon-chem.com