

Way to Go, Indigo!

Lab Overview- In this investigation you will take on the role of an industrial scientist as you examine a process used by jeans manufacturers to soften and lighten denim fabric. You will identify problems with one industrial process, and investigate a possible solution by using your understanding of biological molecules.

Background- Denim jeans were designed in the 1840's to be tough outdoor clothing for farmers, miners, and cattle ranchers. These jeans were stiff and uncomfortable until they had been worn or washed many times. Eventually, jeans became fashionable, but consumers wanted to buy jeans that were already comfortable. Manufacturers had to develop methods to provide new jeans that felt and looked "worn in".

To understand denim you should be familiar with some properties of cotton. Cotton plants produce seed-bearing capsules called bolls. The bolls contain white balls of fuzzy fibers surrounding cottonseeds. The fibers are actually the cell walls of dead cells. These cell walls are made of a carbohydrate called cellulose. **Cellulose** is a long chain of glucose monomers. Multiple cellulose chains are linked together by hydrogen bond. The chains wrap around each other, forming larger and larger strands.

To make denim cloth, manufactures spin the cotton fibers into threads. The naturally white threads are woven together with threads that have been dyed blue. When the threads are dyed, molecules of the dye (called indigo) become trapped between the cellulose fibers, making the threads appear dark blue.

As denim is worn and washed several times, the cellulose fibers start to break and wear thin. As the fibers break, the indigo dye is released and the fabric softens and becomes more flexible.

Manufacturers discovered that washing jeans with pumice stones sped up the softening process. However, stone washing caused several problems:

1. The pumice stones took a toll on the industrial washing machines, which had to be replaced frequently.
2. Additional employees were needed to pick the pumice stones out of the pockets of the jeans.
3. Many jeans had to be destroyed because the pumice stones caused too much damage.
4. The pumice stones wore down to a sandy sludge that clogged drains and sewer lines.
5. Pumice has to be mined, which can have negative effects on the environment.

A better method of preparing denim was needed! Researchers have discovered the enzyme **cellulase** could provide an alternative method of breaking down the cellulose fibers. As cellulase breaks down the fibers, the trapped dye is released. The fabric surface becomes fuzzy as threads fray. Some sort of agitation (shaking, scrubbing, or abrasion) is important to complete the breakage of weakened fibers.

Introduction- In this lab you will start with three swatches of denim. You will perform an experiment to test the effectiveness of the enzyme cellulase to create comfortable jeans.

Way To Go Indigo Lab Answers

A. J. O'Connell

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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EduGorilla's CBSE Class 9th Physical Education Lab Manual | 2024 Edition | A Well Illustrated, Complete Lab Activity book with Separate FAQs for Viva Voce Examination EduGorilla Prep Experts, **Death in a Mood Indigo** Francine Mathews, 2017-03-28 The third Merry Folger Nantucket mystery Word travels fast in Nantucket when two children and their dog discover a skeleton in the dunes of the cold Sconset beach Could the dead woman be the latest victim of the serial killer who has been terrorizing mainland Massachusetts The FBI seems to think so and sends their forensic psychiatrist to the scene But Police Detective Merry Folger has her own suspicions and starts looking into a cold case that has long baffled Nantucket police the disappearance of a beautiful Harvard educated psychiatrist seven years ago When Merry starts inquiring into the tenuous leads in that long cold case she stumbles into a web of violent passions and buried crimes a web that continues to ensnare victims Two more women are murdered giving fuel to the FBI s quest for a serial killer But Merry well aware of the tangled histories of some of the island s longtime residents is convinced the only way forward is digging deeper into the past **The American Biology Teacher** ,2002 **CMJ New Music Report** ,1999-10-18 CMJ New Music Report is the primary source for exclusive charts of non commercial and college radio airplay and independent and trend forward retail sales CMJ s trade publication compiles playlists for college and non commercial stations often a prelude to larger success **My Not-So-Super Blind Date** Allison Temple, 2025-08-30 I m Morgan Murray You probably haven t heard of me With a raft of allergies and powers that won t do more than charge a phone I never lived up to my super family s super expectations It s okay I m used to being overlooked But there s only so much disappointment one man can take and finding out the cute guy on my blind date is a henchman for the city s most notorious crime boss That s one letdown too many This date is over before it even starts Or is it In the meet cute that won t end Jasper and I are stuck in a time loop and the only way out is deadly Good and evil may be relative terms but if we can t escape we may find out that love is forever and ever **Chambers's Encyclopædia: GOO to LAB** ,1886 CMJ New Music Report ,2000-02-07 CMJ New Music Report is the primary source for exclusive charts of non commercial and college radio airplay and independent and trend forward retail sales CMJ s trade publication compiles playlists for college and non commercial stations often a prelude to larger success **Spiral Sands: Whispers of the Eternal Horizon** Vanessa Leach, **Practical Pedagogy** Mike Sharples, 2019-04-01 Practical Pedagogy expands the universe of teaching and learning It provides an accessible guide to new and emerging innovations in education with insights into how to become more effective as a teacher and learner New teachers will find a comprehensive introduction to innovative ways of teaching and learning Experienced educators will be surprised by the range of useful pedagogies such as translanguaging crossover learning teachback bricolage and rhizomatic learning Policy makers will gain evidence of how new teaching methods work in practice with resources for curriculum design and course development Drawing on material from the hugely influential Innovating Pedagogy series of reports this book is a

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