

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

Jan Eliasberg



Way To Go Indigo Lab Answers:

The American Biology Teacher ,2002 *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
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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 **Chambers's Encyclopædia: Goo.-Lab** ,1880 *Hannah's War* Jan Eliasberg,2020-03-03 A
mesmerizing re imagination of the final months of World War II Kate Quinn author of *The Alice Network* Hannah s War is an
unforgettable love story about an exceptional woman and the dangerous power of her greatest discovery Berlin 1938
Groundbreaking physicist Dr Hannah Weiss is on the verge of the greatest discovery of the 20th century splitting the atom
She understands that the energy released by her discovery can power entire cities or destroy them Hannah believes the
weapon s creation will secure an end to future wars but as a Jewish woman living under the harsh rule of the Third Reich her
research is belittled overlooked and eventually stolen by her German colleagues Faced with an impossible choice Hannah
must decide what she is willing to sacrifice in pursuit of science s greatest achievement New Mexico 1945 Returning
wounded and battered from the liberation of Paris Major Jack Delaney arrives in the New Mexican desert with a mission to
catch a spy Someone in the top secret nuclear lab at Los Alamos has been leaking encoded equations to Hitler s scientists
Chief among Jack s suspects is the brilliant and mysterious Hannah Weiss an exiled physicist lending her talent to J Robert
Oppenheimer s mission All signs point to Hannah as the traitor but over three days of interrogation that separate her lies
from the truth Jack will realize they have more in common than either one bargained for Hannah s War is a thrilling wartime
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snarky A filthy city overpopulated and underregulated with even less mercy than a rusted pipe to the eye For the saints that run it it s called home Anybody with the right cred can score an upgrade it s just a matter of who what and how much Good tech bad tech big tech micro tech it s all out for grabs For mercs like Riko installs give an edge every street fight every corp raid and every job demands She and her team have earned their cred carved out a patch of hell and live it up That s where Riko lives Or she did Until she wakes up in a laboratory memory shot body wrecked and tech on the blink Maybe she slammed too many party favors in some lowlife bar Maybe she made some bad choices to get there None of that explains why she finds her girlfriend in the same facility body going necro and tech on a killing streak Caught between horror in front and bullets behind she s got no choice but to get out alone And that s only the beginning Now Riko s dealing with friends on the take corporations on her ass and enough rage to burn a soulless city to the ground if that s what it takes She s fighting a war to tear off the scabs of a conspiracy that ll consume anybody that gets near it chrome and steel sinner and saint Just like it s consumed her girlfriend But rage is a hell of a drug and she s going to do more than just fight She s going to slaughter Praise for NECROTECH NECROTECH crushes everything in its path Brutal unapologetic sexy cyberpunk it is a steel fisted punch in the mouth Scott Sigler 1 New York Times bestselling author of the Generations trilogy Vulgar vicious and very very good Alexander pulls no punches in this intense debut Jason M Hough New York Times bestselling author of Zero World NECROTECH bleeds with raw unapologetic badassery Riko is the cyberpunk heroine I ve been waiting for struggling with the truth that the tech we embrace to solve our problems just creates new ones and no one has a chipset to fix humanity s bugs K C Alexander dials up the attitude anguish and adrenaline in this explosive debut and I m looking forward to Riko s next run Kevin Hearne New York Times bestselling author of The Iron Druid Chronicles Necrotech is a speed freak rush down mean streets of the digital the modified and the just plain crazy It s like razors for your brain Richard Kadrey author of the Sandman Slim series One of the most interesting women protagonists I ve read in a long time Stephen Blackmoore author of the award nominated noir urban fantasy Dead Things Scalding and brutal as a radiation shower punishing as a street fight and as sharp as a blade to the jugular NECROTECH and its badass heroine Riko will grab your heart in a diamond steel fist and squeeze it to a pulp Lila Bowen author of Wake of Vultures Ellingwood's Therapist ,1914 **The Jewelers' Circular** ,1918 *America's Textile Reporter* ,1903 *Administration Report* Madras (India : State). Agriculture Dept,1960 **Knit Goods** ,1921 **St. Louis Railway Register** ,1883 Oil, Paint and Drug Reporter and New York Druggists' Price Current ,1918 Vols include the proceedings some summarized some official stenographic reports of the National Wholesale Druggists Association called 18 1882 Western Wholesale Druggists Association and of other similar organizations **Chemical Abstracts** ,1908

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