



## Eco-friendly Black Wood Hair Conditioner: Strong Scent, Gentle Treatment

### Description

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A new eco-friendly hair conditioner made from wood could be the future of haircare. Scientists in Sweden created it using lignin, a substance found in wood, which also protects against UV rays and moisturizes hair.

The conditioner, combined with coconut oil and water, performed almost as well as commercial products in tests. It reduced hair tangling by 13% compared to a commercial conditioner's 20%. However, it has a black color and a peat-like smell, which might not appeal to everyone.

The researchers are hopeful about commercializing the wood-based conditioner as a sustainable alternative to fossil fuel-based products. They have a patent for the formula and plan to conduct further tests for skin and eye safety before moving forward.

Despite some doubts from experts, the team believes in the product's potential. The question remains whether consumers would embrace a black, wood-scented conditioner as a part of their haircare routine.

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## Vocabulary List:

1. **Eco-friendly** /i:ˌkoʊˈfrɛnd.li/ (adjective): Not harmful to the environment; sustainable.
2. **Lignin** /ˈlɪɡ.nɪn/ (noun): A complex organic polymer found in the cell walls of plants; provides structural support.
3. **Moisturizes** /ˈmɔɪs.tʃə.aɪz/ (verb): To make something less dry or to add moisture.
4. **Commercial** /kəˈmɜː.jəl/ (adjective): Related to or engaged in commerce or business.
5. **Sustainable** /səˈsteɪ.nə.bəl/ (adjective): Capable of being maintained at a certain rate or level; environmentally friendly.
6. **Patent** /ˈpeɪ.tənt/ (noun): A government authority or license conferring a right or title for a set period especially the sole right to exclude others from making using or selling an invention.

## Comprehension Questions

### Multiple Choice

1. What substance found in wood is used to create the eco-friendly hair conditioner?

Option: Lignin

Option: Coconut oil

Option: Water

Option: Peat

2. How much did the wood-based conditioner reduce hair tangling compared to a commercial conditioner?

Option: 5%



- Option: 13%
- Option: 20%
- Option: 30%

3. What color is the wood-based conditioner?

- Option: Black
- Option: White
- Option: Brown
- Option: Green

4. What is one of the concerns regarding the appeal of the wood-based conditioner?

- Option: Color and smell
- Option: Packaging
- Option: Ingredients
- Option: Price

5. What step do the researchers plan to take before commercializing the wood-based conditioner?

- Option: Conduct skin and eye safety tests
- Option: Release the product immediately
- Option: Change the formula
- Option: Increase the production cost

6. What is the potential benefit of using wood-based conditioner instead of fossil fuel-based products?

- Option: Sustainability
- Option: Lower cost
- Option: Faster results
- Option: More fragrance choices

### True-False

- 7. The wood-based conditioner performed better than commercial products in tests.
- 8. The researchers do not have a patent for the formula of the wood-based conditioner.
- 9. Consumers may have concerns about the color and smell of the wood-based conditioner.
- 10. The team is not confident in the potential of the wood-based conditioner.



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11. The wood-based conditioner is expected to be a sustainable alternative to fossil fuel-based products.
  12. The wood-based conditioner has a pleasant floral scent.

### Gap-Fill

14. The wood-based conditioner reduced hair tangling by \_\_\_\_\_ compared to a commercial conditioner.
15. The wood-based conditioner has a \_\_\_\_\_ color.
16. The researchers plan to conduct further tests for \_\_\_\_\_ safety before moving forward.
17. Consumers might not embrace a black, wood-scented conditioner as a part of their haircare routine due to the \_\_\_\_\_ and smell.
18. The researchers have a \_\_\_\_\_ for the formula of the wood-based conditioner.

### Answer

- Multiple Choice:** 1. Lignin 2. 13% 3. Black 4. Color and smell 5. Conduct skin and eye safety tests 6. Sustainability
- True-False:** 7. False 8. False 9. True 10. False 11. True 12. False
- Gap-Fill:** 14. 13% 15. Black 16. skin and eye 17. color 18. patent

### Vocabulary quizzes

#### Multiple Choice ( Select the Correct answer for each question. )

1. Which type of products are considered environmentally sustainable and safe for ecosystems?



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- Option: Biodegradable  
Option: Hazardous  
Option: Toxic  
Option: Synthetic
2. What provides legal protection for a new invention or process?  
Option: Intellectual Property  
Option: Copyright  
Option: Trademark  
Option: Open Source
3. What are distinctive qualities or characteristics of a product or service?  
Option: Bug  
Option: Flaw  
Option: Disadvantage  
Option: Attribute
4. Which type of cancer primarily affects children?  
Option: Breast Cancer  
Option: Prostate Cancer  
Option: Lung Cancer  
Option: Neuroblastoma
5. What describes something made by humans and not occurring naturally?  
Option: Organic  
Option: Authentic  
Option: Natural  
Option: Artificial
6. Which term refers to improvements or progress in a particular area?  
Option: Decline  
Option: Regress  
Option: Stagnation  
Option: Advancements
7. Which element has the chemical symbol "H" and atomic number 1?  
Option: Helium  
Option: Carbon  
Option: Oxygen  
Option: Hydrogen
8. What is the right to keep personal information protected from misuse?  
Option: Transparency



- Option: Confidentiality
- Option: Disclosure
- Option: Privacy

9. What substance increases the rate of a chemical reaction without undergoing permanent changes itself?

- Option: Inhibitor
- Option: Modifier
- Option: Reactant
- Option: Catalyst

10. What is a renewable fuel produced by fermentation of sugars from crops like corn or sugarcane?

- Option: Petrol
- Option: Diesel
- Option: Natural Gas
- Option: Bioethanol

**Gap-Fill ( Fill in the blanks with the correct word from the vocabulary list. )**

11. The company reported a significant increase in \_\_\_\_\_ this quarter.
12. The candidate's \_\_\_\_\_ and problem-solving skills were impressive.
13. The new software provides secure \_\_\_\_\_ to the database.
14. There is growing \_\_\_\_\_ about the impact of climate change on wildlife.
15. Please submit your \_\_\_\_\_ for vacation days in writing.
16. It is essential to \_\_\_\_\_ sensitive data to protect it from unauthorized access.
17. She is a strong \_\_\_\_\_ for animal rights and environmental conservation.
18. The new marketing campaign aims to \_\_\_\_\_ a younger audience.
19. The thrilling announcement is sure to \_\_\_\_\_ fans worldwide.
20. Their performance at the concert was truly \_\_\_\_\_ receiving a standing ovation.

**Matching Sentences ( Match each definition to the correct word from the vocabulary list. )**

21. Lignin is a complex organic polymer that hardens and strengthens the cell walls of plants.



22. This lotion deeply the skin keeping it hydrated and soft.
23. Sustainable practices aim to meet current needs without compromising the ability of future generations to meet their needs.
24. The company's new ad campaign targets a broader audience to increase sales.
25. The genetically crops showed increased resistance to pests.
26. The team praised her quick to the emergency situation.
27. Reducing emissions of is crucial in combating climate change.
28. Vinegar is primarily composed of water and .
29. The company's new AI system demonstrates advanced artificial .
30. Using as a fuel source can help reduce reliance on fossil fuels.

## Answer

**Multiple Choice:** 1. Biodegradable 2. Intellectual Property 3. Attribute 4. Neuroblastoma 5. Artificial 6. Advancements 7. Hydrogen 8. Privacy 9. Catalyst 10. Bioethanol

**Gap-Fill:** 11. revenue 12. intelligence 13. access 14. concern 15. request 16. encrypt 17. advocate 18. attract 19. excite 20. exceptional

**Matching sentence:** 1. Lignin 2. Moisturizes 3. Sustainable 4. Commercial 5. Modified 6. Response 7. Greenhouse gases 8. Acetic acid 9. Intelligence 10. Bioethanol

## CATEGORY

1. Sci/Tech - LEVEL2

### Date Created

2025/02/22

### Author

aimeeyoung99