

# Stopping Stains

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What Stain Remover Works Best?

# Other Wonders I Have About this Experiment

- Will just water work?
- Will the stain completely be removed?
- Does the stain remover just hide the stains?

# Background Knowledge and Research

Stain removers work by using ingredients like surfactants (surface-active agents), to break down, lift, or dissolve stain molecules from fabric, preventing them from bonding to fibers.

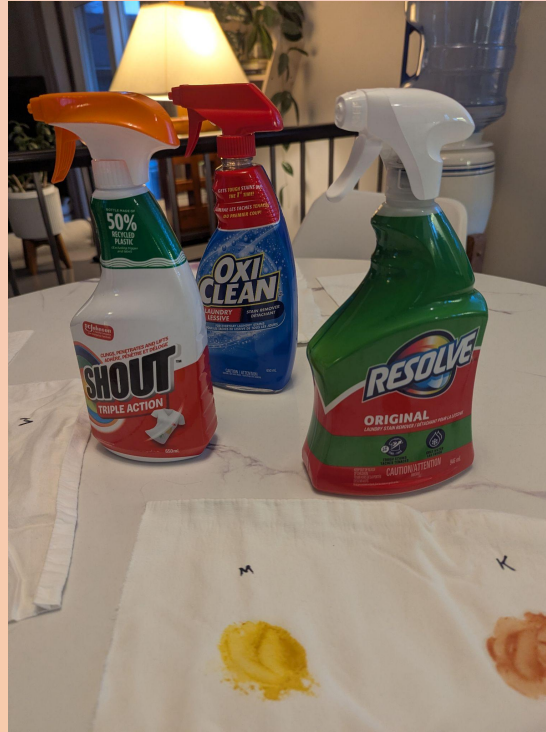
Source <https://www.thoughtco.com/how-do-stain-removers-work-607854>:

# Hypothesis

I think that the OxiClean will work the best for removing the stains, due to its powerful stain removal, whitener, and ability to prevent stains from bonding to fibers.

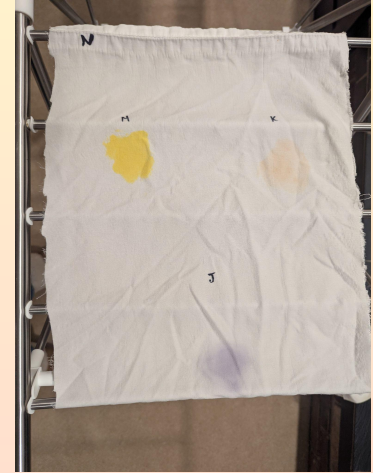
# Materials

1. White sheet
2. Mustard
3. Ketchup
4. Berry juice
5. OxiClean
6. Shout
7. Resolve
8. Excelsior (detergent).



# Procedure

1. Cut white sheet into four squares
2. Label each square with stain remover first letter in the name (OxiClean, Shout, and Resolve).
3. Put the name of each stain where the stain will go (Mustard, Ketchup, and Berry juice).
4. Put one ML of each stain on labeled area.
5. Rub in stains.
6. Let stains sit for two hours.
7. Once the two hours have passed, apply stain remover and rub in on the square labeled the same name as the product.
8. Wait five minutes.
9. After five minutes, put in laundry machine on quick wash.
10. After laundry machine, let it dry naturally.



# Controlled Variables

The controlled variables are the stains (Mustard, ketchup, and Berry juice).

# Manipulated Variable

The manipulated variables are the stain removers (Oxiclean, Shout, Vanish ,and Resolve).

# Observations

- OxiClean was noticeably better for removing stains
- Shout was pretty close with no stain remover
- Resolve was in the middle.

# Analyzing Results (Responding Variable)

OxiClean worked the best, Resolve came in second, Shout was third, and last was (obviously) no product.



## Conclusions

In conclusion oxiclean was the best due to its ability to, brightening whites, remove tough set-in stains like red wine or food.

## Applications

I believe this knowledge of stain remove can help me in the future to not spend as much money, taking less time with stains, and I'll know I'm using the best stain remover.

# Research and Sources

- The ultimate guide to stain removal
- Stain removal
- Source [https://www.thoughtco.com/how-do-stain-removers-work-607854:](https://www.thoughtco.com/how-do-stain-removers-work-607854)