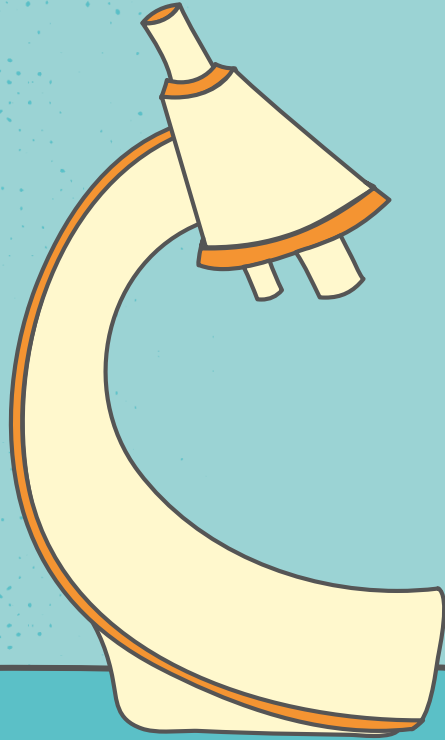


Produce PLA plastics from lactate

Make plastic from milk





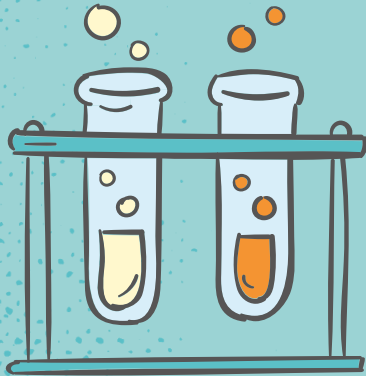
It all began ...

... with a cat!!!





One night in 1897,
Mr. Spitler left a
bottle of vinegar on
the counter of his
laboratory.



The careless cat,
however, threw the
bottle and the liquid
rolled on the
counter and finally
fell into the animal's
milk.



The next morning,
Mr. Spitler noticed
that the milk had
solidified into a hard,
plastic-like material.





What had happened?

Essentially, vinegar had transformed casein! It had changed its shape to a shape similar to the shape of plastics.

This is what scientists call polymerization.



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It's time for us to do the same experiment that the cat did to make milk from plastic !!



Material



200ml milk



1 tablespoon of vinegar



A strainer



Kitchen paper



Greaseproof paper



Gloves

Procedure

1. We heat the milk until it reaches room temperature

2. We pour in a tablespoon of vinegar and we can see the formation of a white sticky substance (casein)

3. We pour the milk into a strainer or a piece of cloth

4. We add a little food color (optional)

4. We knead it with our hands to give it a shape or we place it into molds

5. We let it dry

