

Dye baths

Fabricademy 2024

Spirulin

Materials:

Water 200 ml

Spirulina: 20% WOF.

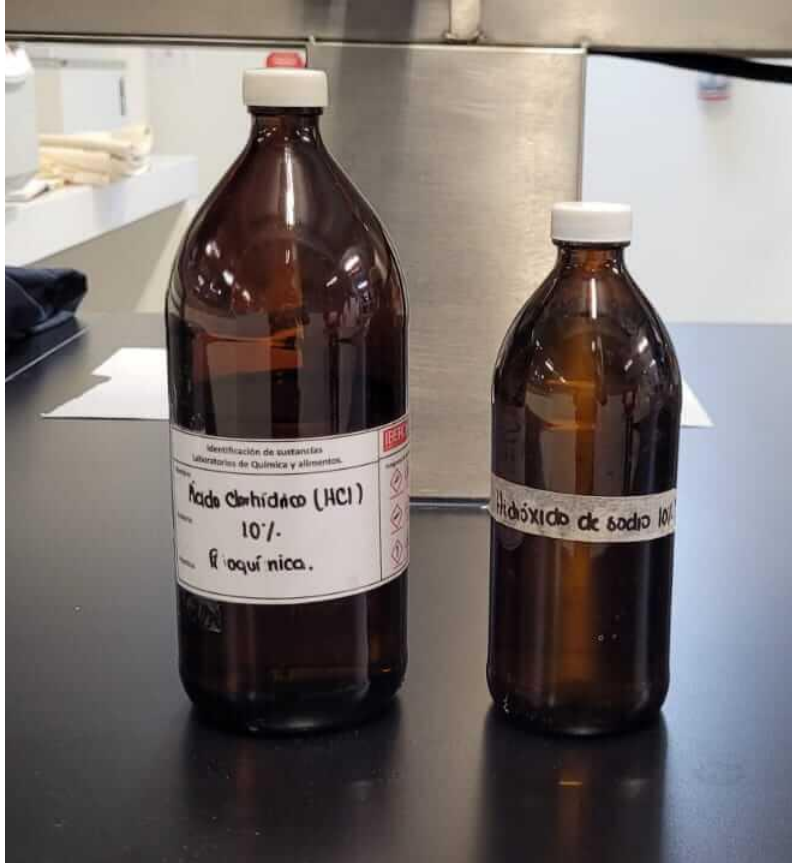
Recipe:

1. Crush spirulina and add 20% WOF to the water.
2. Heat the water in a pot and put spirulina.
3. Let it simmer for 30 minutes.
4. Filter the liquid and save the grounds.

In my case, I had to give a second dye bath with more spirulin since the first bath barely was enough to tint the fabric.



Modifiers



We used several modifiers:

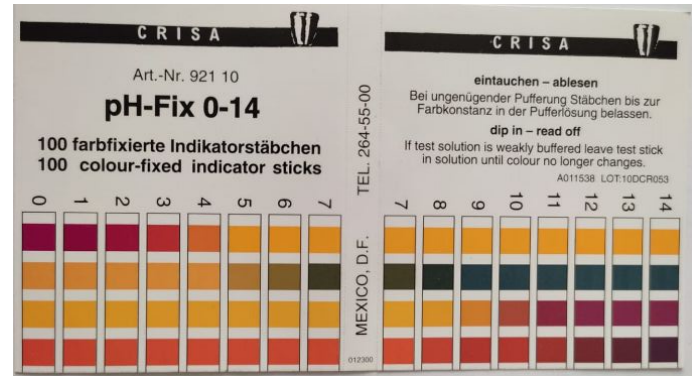
Clorhidric acid at 10%

Sodium Hidroxiide at 10%

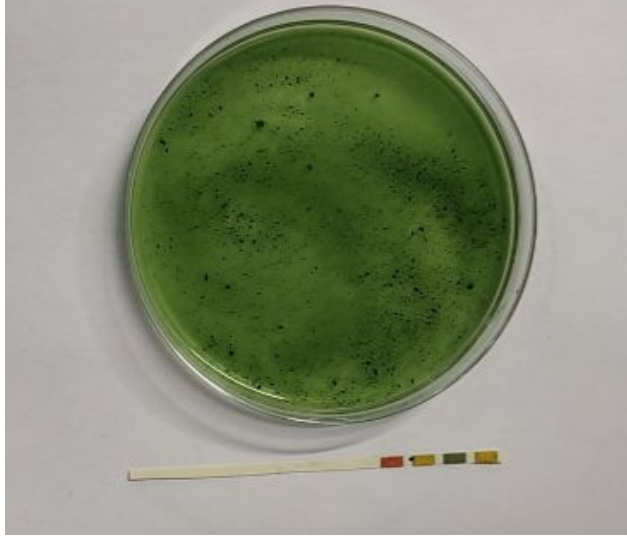
Vinegar

Sodium Carbonate

And compare results with ph Stripes

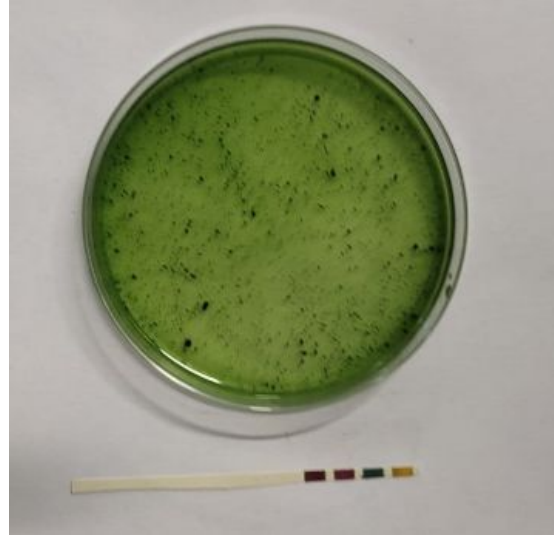


Spirulin Modifiers

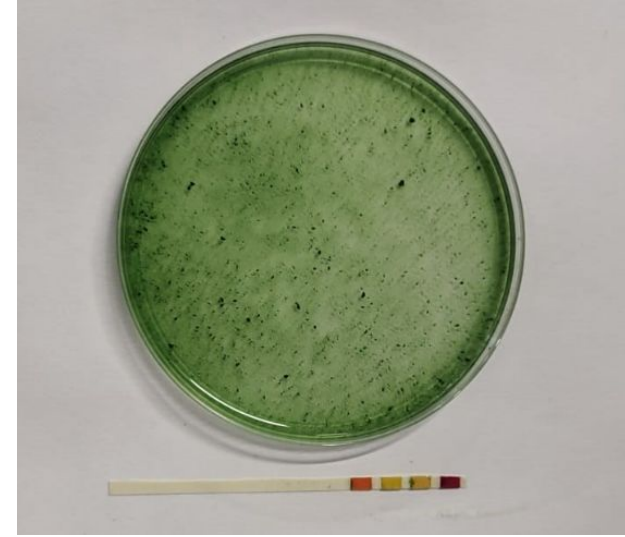


Original dye. Ph neutral

Little to no change was observed



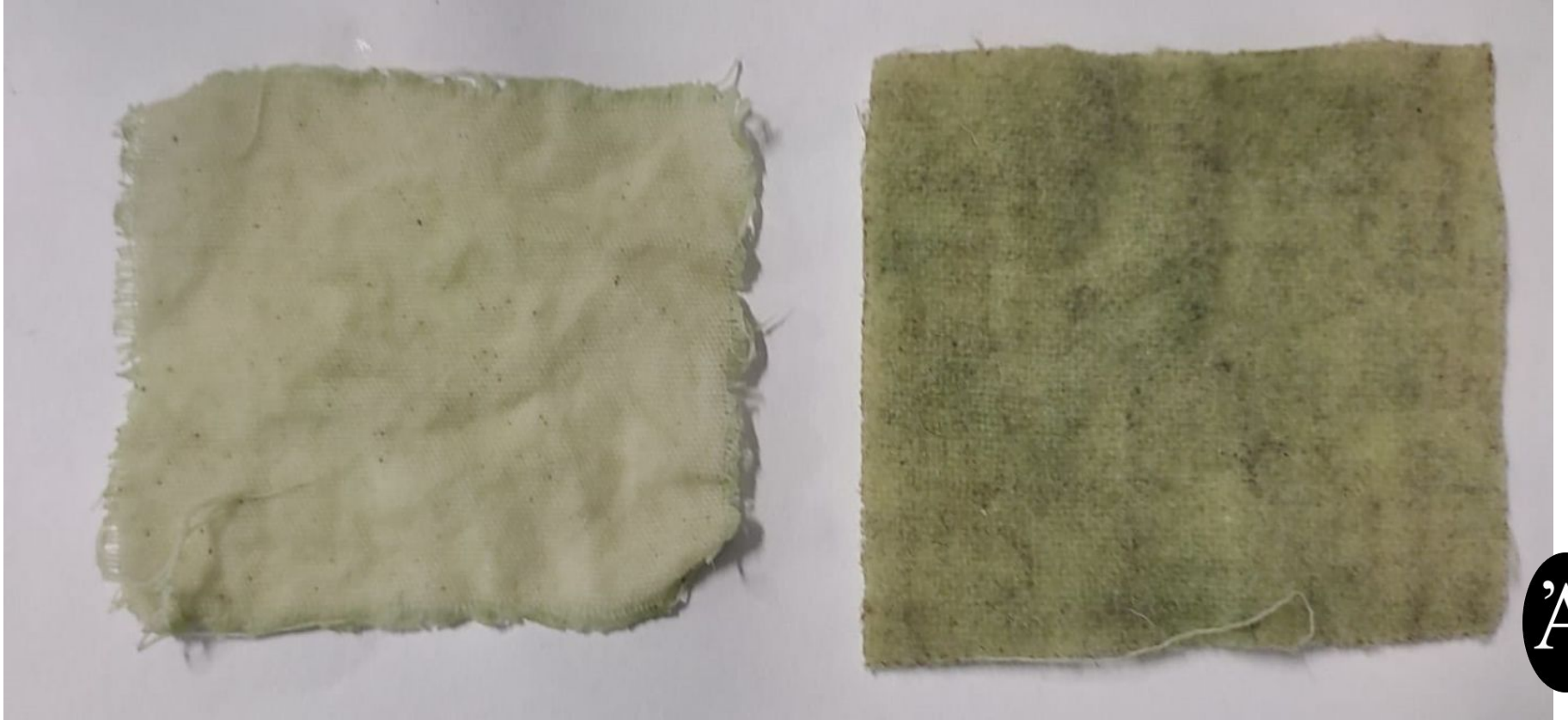
Alcaline dye. Ph alcaline I
used Sodium Hidroxiide at
10%



Acid dye. Ph acid I used
Clorhidric acid at 10%



Spirulin final result



Oak Dye Bath

Materials:

Water 500 ml

Oak leafs: 80 gr

Recipe:

1. Cut in small pieces the Oak leafs
2. Heat the water in a pot and put the leafs
3. Let it simmer with the cloth for 60 minutes.
4. Filter the liquid and save the grounds.





Crushed leafs



Boil for an hour

Oak dye modified



Oak dye is slightly acid with a ph of 5. I used Vinegar to make it more acidic to a ph of 3 and sodium carbonate to make it alkaline to a ph of 8. Little to no change happened



Final Color Oak dye bath



Clover Pigment

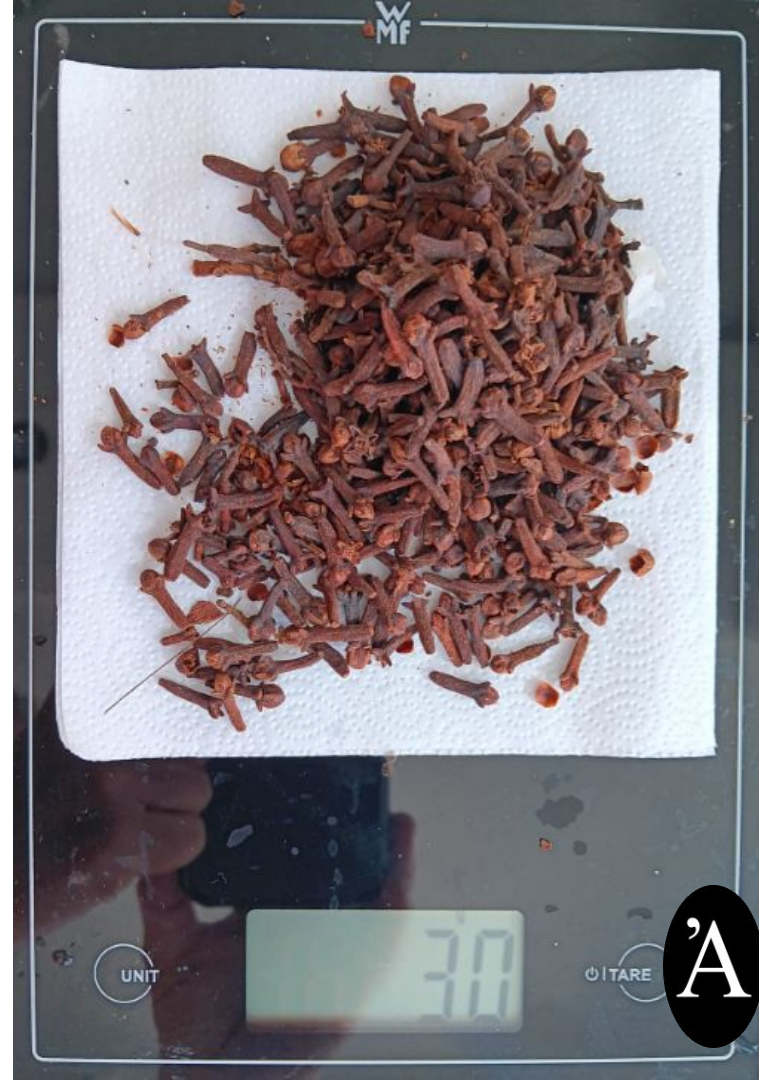
Materials:

Water 240 ml

Crushed cloves: 30 gr

Recipe:

1. Grind the cloves in a mortar
2. Heat the water in a pot and put the cloves
3. Let it simmer with the cloth for 60 minutes.
4. Filter the liquid and save the grounds.





Grinded Clove



As you can see, clove dye is very basic; it has a pH of around 11. I used vinegar to change the pH, and no color change occurred.



Clove has a dark, beautiful, intense brown shade. I loved it.



Wild sunflower dye

Materials:

Water 500 ml

First I used 30gr of petals peresver din alcohol

Since the dye was very ligh I used 130 gr the center of the flower that added much more color

Recipe:

1. Add the petals and fine cut the center of the flower
2. Heat the petals and center in a pot with the water
3. Let it simmer with the cloth for 60 minutes.
4. Filter the liquid



Helianthus maximiliani Schrad.



Girasol

Asteraceae

✓ Confirmar

11%



Helianthus petiolaris Nutt.



Girasol comun

Asteraceae

✓ Confirmar

6%





Center of the flower



Petals



Wild sunflower turned out a very nice yellowish shade





Wild sunflower

Clove

Oak

