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Beschreibende Grafik - oder Bildunterschrift.

Germany: Fruits and vegetables Apple – carrot – raw food salad is healthy.

Easy experiments with vitamins Part I

Materials and tools

Vitamin C is one of the essentials for healthy linving!

two Pasteur pipettes two petri dishes (or petri plates) one small cutting board one lemon squeezer one knife one lemon

three apple varieties

For example: Granny Smith, Parmäne, Kaiser Wilhelm



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The process of the experiment

Step I

Squeeze out the lemon.

Step 2

Cut a slice of each apple variety.

Step 3

Taste something from each apple variety and

a little lemon juice and document the flavour.

Step 4

Place one small slice of each apple variety with the cut surface facing up in the Petri dishes Sprinkle the apple slices in one bowl thoroughly with lemon juice.

Step 5

Wait for 10 minutes and document your observations.

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Observation

The apple slices without lemon juice become brownish after some time. There were differences in apple varieties. The sour apple become later and less brown while the sweet ones become faster and stronger brown. On the other hand the

apples with citric acid do not turn brown.



Explanation and Conclusion

The acid in the apples and in the lemon juice is, among other things, ascorbic acid. Vitamin C is ascorbic acid.

An apple slice beco-

An apple slice becomes brown where it is not protected by the peel. The apple reacts with air. It is an oxidation with atmospheric

oxygen. Ascorbic acid acts as an antioxidant. This is a substance that "gives" itself for oxidation and thereby another substance -e.g. the apple slices – is protected. In the human body, vitamin C also acts as

Furthermore, vitamin C acts to build up collagen and improves the absorption of iron.

Eat fruits
and taste
vegetables—
it will
support you
to live better!

Context

In the human body, vitamin C also acts as an antioxidant.

Furthermore, vitamin C acts to build up collagen and improves the absorption of iron.

Not every food contains vitamin C.

Lemon tastes sour.

an antioxidant.

- The sour taste of apples is different.
- Chocolate does not taste sour.

Hot lemon? Vitamin C is sensitive to heat.

