Saliva Science

Procedure

Safety: Wear goggles and gloves. Iodine solution is poisonous and stains.


2. Experiment Transfer a small amount of the mixture to a dish labeled No Saliva. Add 1 drop of iodine solution. Stir thoroughly, then put the cup in a warm, sunny place for 8 minutes. Record any changes and the time they took.

<table>
<thead>
<tr>
<th>Dish</th>
<th>Change</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Saliva</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Saliva</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

3. Use Variables Put a quarter spoonful of breadcrumbs in another cup. Add 20 drops of water. Then add 5 mL of saliva solution. Stir thoroughly, then put the cup in a warm, sunny place for 8 minutes.

4. Compare Add another 5 mL of saliva solution. Stir thoroughly, and return the cup to the sunny place for 8 minutes. Then transfer a small amount of the mixture to a dish labeled Saliva. Test with 1 drop of iodine solution. Record your observations.
Conclusion

1. **Use Variables** What is the independent variable in this experiment? What variables were controlled?
   
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2. **Compare** How did the results of the iodine test in steps 2 and 4 compare?
   
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3. **Infer** What can you infer about what saliva does in the mouth?
   
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**Experiment**

What foods contain starch? Write out a plan to **analyze data** from a variety of foods. Get permission to carry out your plan. Use a chart to share your results.