

Vitamins

How to prevent vitamin loss

The amount of vitamins in a meal depends on:

- The amount found naturally in the food used.
- Factors such as temperature, light, oxygen, acid and alkali affect the stability of vitamins.

Stability					
Vitamin	Acid (low pH)	Alkali (high pH)	Heat (>70 °C)	Light	O_2
С	•	•	•	•	•
B_6	•	•	•	•	•
Folic acid	•	•	•	•	•
A	•	•	•	•	•
D	•	•	•	•	•
E	•	•	•	•	•
no effect	sensitive ver	y sensitive			



Nutrition Fact Sheet



Tips to prevent vitamin loss during:

Purchasing and storing

- Use regional vegetables and fruits whenever possible → vitamins are lost during transportation
- Keep vegetables and fruits covered and refrigerated during storage to prevent rapid vitamin loss
 - → exception: sweet potatoes, winter squash and vegetables which are sensitive to low temperature
- Do not store fresh fruits and vegetables too long
 → guide time: fruits: 4-5 days, vegetables/salads:
 2-3 days
- Store high-quality vegetable oil in a dark place to prevent oxidation
- Store milk in an opaque cardboard container

Preparing

- Wash vegetables (and fruits) under running water whole and before peeling
- Cutting vegetables into large pieces prevents vitamin loss
- Cover fruits and vegetables immediately after cutting them up to prevent vitamin loss through light and air
- Prepare food rich in folic acid (e.g. green leafy vegetables, broccoli, corn) very carefully folic acid is extremely sensitive to heat and light

Processing/cooking

- The best cooking methods to prevent vitamin loss in vegetables are steaming, stewing/braising and pressure cooking
- Do not heat high-quality vegetable oil too high
- · Braise, bake, or broil meat instead of frying
- Cook with the lid on
- Use the cooking liquid whenever possible
- Cook for the shortest possible time
- Cook until just tender, not mushy
- Cooked vegetables should be quickly heated to 70 °C (158 °F) to destroy enzymes which threaten the vitamins
- The quick defrosting of fruits and vegetables decreases vitamin loss
- Serve immediately → keeping food warm causes vitamin loss
- If you use frozen vegetables:
 - Don't thaw them before cooking
- Heat the water first, then add the vegetables
- If you use them for cold dishes, cook them thoroughly beforehand
- Use the microwave for heating them
- If you use canned vegetables:
 - Use the juice to cook the vegetables
 - Never boil canned vegetables
 - Use the microwave for heating them
 - Avoid excessive stirring while warming them up

