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Pickling, also known as brining or corning, is the process of preserving food by anaerob
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entation
in
brine
(a solution of
salt
in water) to produce
lactic acid
, or
marinating
and storing it in an acid solution, usually
vinegar
acetic acid
). The resulting food is called a
pickle
. This procedure gives the food a
salty
or
sour
taste.
In South Asia
, edible oils are used as the pickling medium with vinegar.
  Another distinguishing characteristic is a pH less than 4.6, [ 1 ] which is sufficient to kill most
bacteria. Pickling can preserve
perishable
foods for months.
Antimicrobial
herbs and spices, such as
mustard seed
garlic
cinnamon
or
cloves
, are often added.
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Pickling Vegetables

Written by W.J.Pais

If the food contains sufficient moisture, a pickling brine may be produced simply by adding dry salt. For example,

sauerkraut

and

Korean

kimchi

are produced by salting the vegetables to draw out excess water. Natural fermentation at room temperature, by

lactic acid bacteria

, produces the required acidity. Other pickles are made by placing vegetables in vinegar. Unlike the

canning

process, pickling (which includes fermentation) does not require that the food be completely sterile

before it is sealed. The acidity or salinity of the solution, the temperature of fermentation, and the exclusion of oxygen determine which microorganisms dominate, and determine the flavor of the end product.

[<u>3</u>]

When both salt concentration and temperature are low, <u>Leuconostoc mesenteroides</u> dominates, producing a mix of acids, alcohol, and aroma compounds. At higher temperatures <u>Lactobacillus plantarum</u>

dominates, which produces primarily lactic acid. Many pickles start with

Leuconostoc

, and change to

Lactobacillus

with higher acidity.

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The term *pickle* is derived from the <u>Dutch</u> word *pekel*, meaning *brine*. In the U.S. and Canada, the word

pickl

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alone almost always refers to a pickled cucumber

[
citation needed
]
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(other types of pickles will be described as "pickled onion," "pickled cauliflower," etc.), except when it is used figuratively. In the UK, pickle (as in a

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"cheese and pickle sandwich") refers to Ploughman's pickle
, a kind of chutney

Middle East

In Arab countries, pickles (called mekhallel in $\underline{\textit{Arabic}}$) are commonly made from $\underline{\textit{turnips}}$, peppers, carrots, green

olives

, cucumbers, beetroot, cabbage,

lemons

, and

cauliflower

Source