

ISO 9001, ISO1400, ISO13485, CE and WHO-GMP certified.



vacuum impregnation to modify health-promoting properties of fresh-cut apples cv. Fuji

сн. т. су.			
Raw Material	Composition of Vacuum Impregnation Solutions	Process Parameters	Effect
fresh-cut apples cv. Fuji	20% diluted high fructose corn syrup (HFCS) or 1% calcium caseinate (CC) aqueous solution with an addition of 0.4% α tocopherol acetate, 7.5% Gluconal Cal® (GC), and 0.04% zinc lactate (ZL)	<i>p</i> 1 13.3 kPa <i>t</i> 1 15 min <i>t</i> 2 30 min	In 100 g fresh-cut apples the vitamin E content increased more than 100 times, and calcium and zinc contents increased about 20 times compared with unfortified apples
Flow Chart			
Introduced in Hydrodynami Vacuum Chan Time po 20% diluted high fruc 1% calcium caseinate an addition of 0.4% o	tt applescv. Fuji tto Vacuum Chamber c Mechanism (HDM) aber at $-p1=13.3$ KPA eriod t1=15 min v tose corn syrup (HFCS) or (CC) aqueous solution with tocopherol acetate, 7.5% and 0.04% zinc lactate (ZL)		pregnation Setup
Vacuum Chambe	xation Phenomenon(DRP) r at atmospheric pressure eriod t2=30 min		Solution
In 100 g fresh-cut apples the vitamin E content increased more than 100 times, and calcium and zinc contents increased about 20 times compared with unfortified apples			DOWNLOAD CATALOG

Result:

In 100 g fresh-cut apples the vitamin E content increased more than 100 times, and calcium and zinc contents increased about 20 times compared with unfortified apples. In this respect, the introduction of vitamin E to fruit and vegetables, particularly as they typically contain its slight amounts, seems to be an interesting alternative to supplements. During the enrichment of fresh-cut apples with vitamin E as well as calcium and zinc Park et al. (2005) obtained a 100-fold greater content of vitamin E per 100 g of apples and approximately 20-fold higher contents of calcium and zinc in apples in comparison to apples before impregnation.

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