

NAS NARAN LIME JUICE

SMALL-SCALE MANUFACTURE

Nas naran is a variety of lime which has a less sharp flavour than most other varieties, making it a more refreshing drink. The skin of the fruit has a glossy and dimpled appearance.

Recipe

Juice 14% Sugar 12% Water 74%

Preservative Sodium metabisulphate 230ppm. (0.023%) (70ppm SO²)

Colouring A few drops of green food dye if necessary

Method

Wash whole fruits and discard any fruit which is bad.

Cut the fruits in half and squeeze out the juice by hand or with a squeezer (this can be two grooved wooden rollers). Separate the seeds from the juice by squeezing through muslin cloth.

Mix the sugar with the water and filter the solution through a muslin cloth. (Sugar often contains a lot of dirt and foreign bodies.) Heat the sugar syrup to 95°C then add the Nas Naran juice, heat the mixture to 90°C, add the preservative, heat all the ingredients at 90°C for 1 minute. Then start the filling operation maintaining the temperature of the juice at 90°C.

Hot fill the juice into bottles which have been cleaned and then steamed to sterilise them, and are still hot so they do not crack when hot juice comes in contact with them. The bottles should be filled as quickly as possible so that the juice is not heated for longer than necessary, or recontaminated because it has cooled down before being sealed in the bottle. The lip of the bottle should be clean and dry (wipe with clean tissue paper) before placing the cap on it. Lay the bottles on their side to cool for 15 minutes. This is a most important step to avoid contamination while the cap fits firmly down onto the glass lip as the vacuum forms.

Equipment list

Bottles, crown caps and labels Crown capping machine Cooking facilities, gas ring, electric ring, etc Stainless steel saucepan Thermometer in protective jacket Stainless steel cutting knife and spoon Wooden spoon for stirring Steam generator/Cutting board/Scales Measuring cylinder/Funnel Liquidiser/Muslin

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Nas Naran Lime Juice Practical Action

Reference and Further Reading

Practical Action Technical Briefs (Juices)

- Mixed fruit juice manufacture
- Lime juice small scale production
- Lime cordial
- Nas naran lime juice
- Passion fruit juice

<u>Lime Marmalade</u>, Practical Action Technical Brief <u>Lime Oil & Juice</u>, Practical Action Technical Brief <u>Pickled dry salted lime</u>, Practical Action Technical Brief

<u>Small-scale processing of ready to drink pineapple juice</u>. Food Chain No 27 <u>Principles and practices of small and medium-scale fruit juice processing</u>. FAO Agricultural Services Bulletin 146, Food and Agriculture Organization of the United Nations (FAO), (2001). <u>Technical manual on small-scale processing of fruits and vegetables</u>, Food and Agriculture Organization of the United Nations (FAO)

<u>Setting up and Running a Small Fruit or Vegetable Processing Enterprise: Opportunities in Food Processing CTA</u>

<u>Starting a Small Food Processing Enterprise</u> by Peter Fellows, Ernesto Franco & Walter Rios Practical Action Publishing/CTA 1996

<u>Small Scale Food Processing</u> 2nd Ed. P Fellows & S Azam Ali, Practical Action Publishing, 2003 Fruit and Vegetable Processing UNIFEM Practical Action Publishing, 1993

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