

Targeted food surveillance – Preservatives in preserved fruits and vegetables

Centre for Food Safety

Food and Environmental Hygiene Department

March 2009

Introduction

■ Background

- ❑ Preservatives (e.g., sulphur dioxide, benzoic acid and sorbic acid) are commonly used in preserving fruits and vegetables
- ❑ The Centre for Food Safety (CFS) notes that there had been levels of excessive preservatives detected in previous samples of dried fruits and pickled vegetables.

■ Objective

- ❑ The CFS has conducted a targeted food surveillance project to assess the use of preservatives in preserved fruits and vegetables.

Types of samples

- No. of samples: about 620
- Types of samples
 - pickled vegetables (such as cucumber, radish, mustard greens, rakkyo, ginger and chillies)
 - dried fruit (such as dried mango, dried pineapple, raisin, dried apricots, dried plums, dried blueberries and olives)
- Testing items
 - preservatives (including sulphur dioxide, benzoic acid and sorbic acid)

Unsatisfactory samples

- Overall satisfactory rate was 99.2%.
- There are 5 unsatisfactory samples

Sample	Unsatisfactory testing item	Result
4 preserved vegetables (including pickled garlic bulb, pickled mustard green , Sichuan mustard and preserved turnip)	Sulphur dioxide	350 – 560 ppm
	Benzoic acid	1700 – 3300 ppm
1 preserved fruit (dried apricot)	Sulphur dioxide	2500ppm

Summary

- The preservatives concerned are commonly used in food processing and are of low toxicity. They should not pose significant health effect on consumers upon normal consumption.

Follow up actions

- Trace source of food items in question.
- Request vendors to stop sale and dispose of incriminated food items.
- Take follow-up samples.
- Issue warning letters to concerned vendors.
- Take prosecution actions if there is sufficient evidence.
- The CFS will remind the trade that they should adhere to the “good manufacturing practice” and comply with legal requirement via various communication channels.

Advice for trade

- Use of preservatives is regulated under the Preservatives in Food Regulations, Cap.132 BD. The maximum penalty for conviction is a fine of \$50,000 and imprisonment for 6 months.
- Adhere to the "good manufacturing practice" (GMP) and comply with the legal requirements when using preservatives.
- Source food and ingredients from reliable sources.

Advice for consumers

- The preservatives concerned are commonly used in food processing and are of low toxicity. They should not pose significant health effect on consumers upon normal consumption.
- Buy food from reliable suppliers of food.
- Maintain a balanced diet to minimize risk.