Seasonal Food Surveillance — Lunar New Year Food

Centre for Food Safety
Food and Environmental Hygiene Department





Background

- Before Lunar New Year, people would buy festive food to celebrate the holiday. At the same time, they would be concerned about the safety of the festive food.
- As such, the Centre for Food Safety recently conducted a seasonal surveillance project on Lunar New Year Food:
 - to assess the safety of LNY food and
 - to provide information to consumers for informed choices.





Types of food tested

- 666 food samples collected for testing.
- Types of food included:
 - steamed puddings (e.g., turnip pudding, festive cake)
 - poon choi
 - fried dumplings (e.g., sesame balls, crispy triangles)
 - sweetened fruits & vegetables
 - glutinous rice balls
 - seeds
 - dried vegetables & dried soybean products
 - dried aquatic products
 - Chinese preserved meat
 - others





Types of analysis

Microbiological tests included

Salmonella, Clostridium perfringens, Bacillus cereus,
 Staphylococcus aureus and other food poisoning organisms

Chemical tests included

- preservatives (e.g., sulphur dioxide, benzoic acid and formaldehyde)
- colouring matters (e.g., Sudan dyes)
- sweeteners
- metallic contamination (e.g., cadmium, mercury & arsenic)
- pesticides
- toxins (e.g. aflatoxin)
- others





Overall results

- Overall satisfactory rate was 97.7%.
- All bacteriological test results satisfactory
- All samples satisfactory for colouring matters, sweeteners, metallic contamination and pesticides
- In total 15 samples were unsatisfactory in respect of preservatives and toxin.





The unsatisfactory samples

15 unsatisfactory samples:

Samples	Tests	Results
2 dried daylily flowers,5 sweetened winter-melon,2 bamboo fungus,1 sweetened mandarin	Sulphur dioxide (preservative)	690 - 16000 ppm ^{1,2}
1 festive cake	Benzoic acid (preservative)	1800 ppm ²
3 glutinous rice balls	Aflatoxin	0.046 - 0.059 ppm ³
1 dried shrimp	Boric acid	410 ppm ⁴

- 1. Sulphur dioxide is a commonly used preservative. It can be removed by thorough soaking, washing & cooking.
- 2. The level concerned is low and should not pose significant health effect on consumers.
- 3. Although aflatoxin is carcinogenic, the level is low and immediate health risk upon normal consumption is unlikely.
- 4. Boric acid is not a permitted preservative. At the concerned level, immediate health risk upon normal consumption is unlikely.





Advice for trade

- Use only permitted food additives, follow good manufacturing practice
 & comply with legal requirements.
- Adopt "good manufacturing practice" (GMP) for manufacturing food products.
- Obtain raw materials from reliable suppliers.
- Verify the specifications for quality product, such as the decontamination process for reduction of aflatoxin level.
- Maintain good storage conditions for peanuts and nut products including:
 - dry and cool environment;
 - stock rotation should be on a first in first out basis.





Advice for consumers

- Most sulphur dioxide in the dried vegetables can be removed by thoroughly soaking, washing and cooking of food.
- Purchase from licensed and reliable retailers.
- Observe the packing and storage condition.
- Keep the products of peanuts and nut products at dry and cool environment (below 20°C and humidity <80%).
- Maintain a balanced diet and avoid eating too much Lunar New Year food with high energy, sugar, fat and/ or cholesterol.



