# TEMPERATURE CONTROL AND THERMOMETER USE

#### EAT SAFE FACT SHEET

**Dedicated to a better Brisbane** 

Everyday, Brisbane City Council works with residents and local communities to help make our city what it is today with a long term vision for the future. Council's Eat Safe program is helping to deliver world-class dining for Brisbane residents and visitors.

# Temperature control

Potentially hazardous foods need to be kept below 5°C or above 60°C to minimise the growth of bacteria that cause food poisoning. The temperature range between 5°C and 60°C is called the 'temperature danger zone'. Examples of potentially hazardous food include:

- raw or cooked meats, or foods containing raw or cooked meat, such as curries or soups
- seafood and foods containing seafood
- dairy products and foods containing dairy products (e.g. custard and dairy based desserts)
- fried food such as spring rolls, dim sum, dumplings, gyozas, wontons and samosas
- processed fruits and vegetables (e.g. salads)
- foods containing cooked rice (e.g. fried rice, rice cakes, rice pudding and sushi)
- foods containing eggs, or other protein-rich foods (e.g. scrambled eggs, egg rolls, omelettes and quiches)
- foods containing bean sprouts (e.g. noodle dishes) or beans (e.g. tofu, mung bean cakes and bean rice pudding)
- foods that contain any of the above (e.g. rice paper rolls).

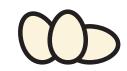
# 60°C SAFE ZONE Keep hot food above 60°C Soc C - 60°C Danger zone Bacteria alive and multiplying risk of food poisoning Soc Soc Safe Zone Keep cold food below 5°C

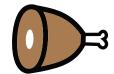
# Potentially hazardous foods





Raw meat and food containing raw meat





Cooked meat and food

containing cooked meat

Foods containing eggs



Dairy products

Food containing fruits and vegetables

# Tips for temperature control

- If you want to hold hot food on a stove or in an oven, rice cooker, steamer or bain-marie, you need to make sure your equipment can keep the food at 60°C or above.
- Make sure you have enough refrigerator or cold room space to store your food. Refrigerators and cold rooms do not work properly when they are overloaded.
- Use a probe thermometer regularly to check the temperature of food you store or display. Built in displays on equipment are not always accurate. It is recommended you record any temperature checks.



# Thermometers

You will need a thermometer to monitor the temperature of food. Your thermometer needs to be accurate to  $\pm 1^{\circ}$ C and be able to measure the internal temperature of food. It's recommended to use a digital probe thermometer as they generally meet these requirements. Laser thermometers can be useful to quickly check the surface temperature of food however they can't measure the internal temperature.

#### How to clean and sanitise your thermometer

- 1. Wipe away food.
- 2. Wash probe with warm water and detergent.
- 3. Sanitise with alcohol wipes, food grade sanitiser or hot water above 77°C for 30 seconds.
- 4. Allow to air dry or use single use towels.

# How to check the temperature of food

- Find the warmest area of your refrigerator or cold room, or the coldest area of a hot display unit or bain-marie (such as near the door or opening).
- Insert the clean and sanitised thermometer into the centre of the food.
- Wait until the reading on the thermometer display has stopped moving.
- If you are checking frozen or packaged food, place the probe between two of the packages.

# How to check your thermometer

You need to check the accuracy of the probe thermometer at least once every 12 months. You can do this by:

- using the boiling water check, if the thermometer is used to measure the temperature of hot food
- using the ice water check, if the thermometer is used to measure the temperature of cold food
- using both checks if you use the thermometer for both hot and cold food checks.

# Ice water check

Step 1: Mix 50% crushed ice and 50% water in a container. Wait for five minutes.

Step 2: Insert the probe into the container for at least 10 seconds until the reading has stopped moving.

**Step 3:** Check that the temperature is between -1°C and 1°C. Record the temperature.

Step 4: If the temperature is greater than 1°C or less than -1°C, replace your thermometer.

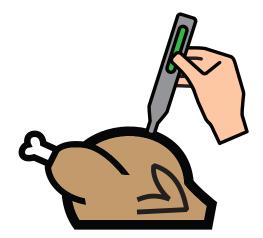
# Boiling water check

Step 1: Bring a container of tap water to the boil.

Step 2: Carefully insert the thermometer for at least 10 seconds until the reading has stopped moving.

Step 3: Check that the temperature is between 99°C and 101°C.

**Step 4:** If the temperature is greater than 101°C or less than 99°C, replace your thermometer.



Check food temperature

# Further information

For further information on Eat Safe Brisbane visit brisbane.qld.gov.au/EatSafeBrisbane

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