

Experts' Opinion

What are low calorie sweeteners?





sweet compounds that contain virtually no calories, and which can be used to replace sugar in food and drinks.

Low calorie sweeteners are intensely

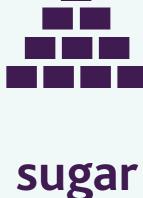
as a tool in everyday lifestyle choices1. ¹ Gibson S et al. (2014) Consensus statement on the benefits of low-calorie sweeteners. Nutrition Bulletin, December 2014

Benefits of low calorie sweeteners

Benefits



versus



low calorie sweeteners do not increase appetite and have no

Benefit #1

discernible effect on satiety





² Bellisle & Drewnowski 2007 Renwick & Molinary 2010 ³ Anton et al. 2010

low calorie sweeteners help to reduce energy intake when used in place of higher energy ingredients

Benefit #2

high

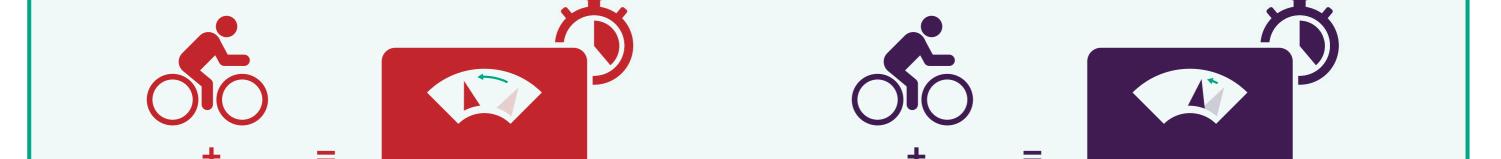


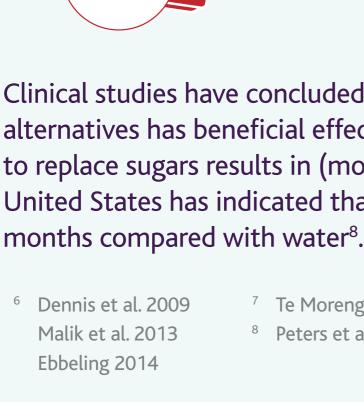
Benefit #3

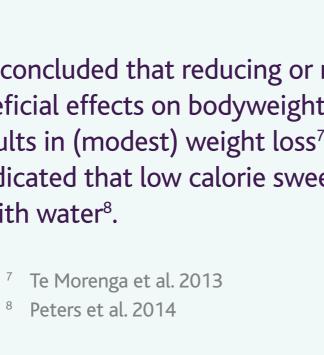
low calorie sweeteners can enhance weight loss under real-life conditions when used as part of a behavioural weight loss programme

Mattes & Popkin 2009

Raben & Richelsen 2012







Plasma glucose concentrations

100

60

0

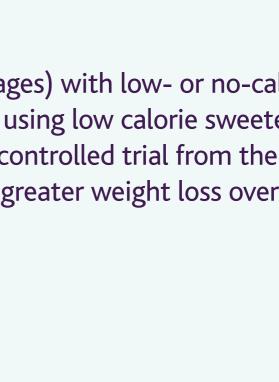


■ low calorie sweetened beverage

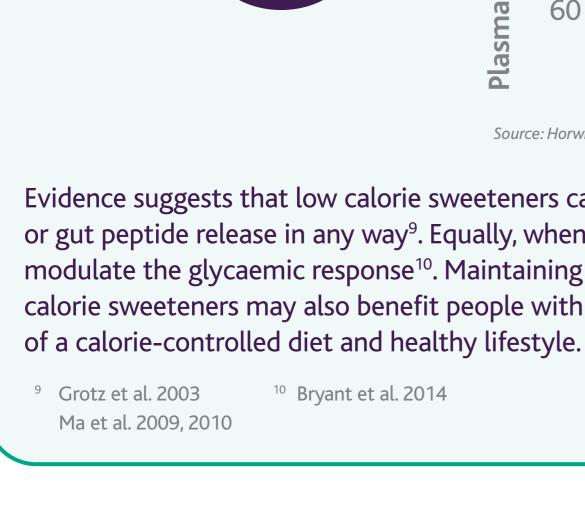
180

Time (minutes)

unsweetened beverage



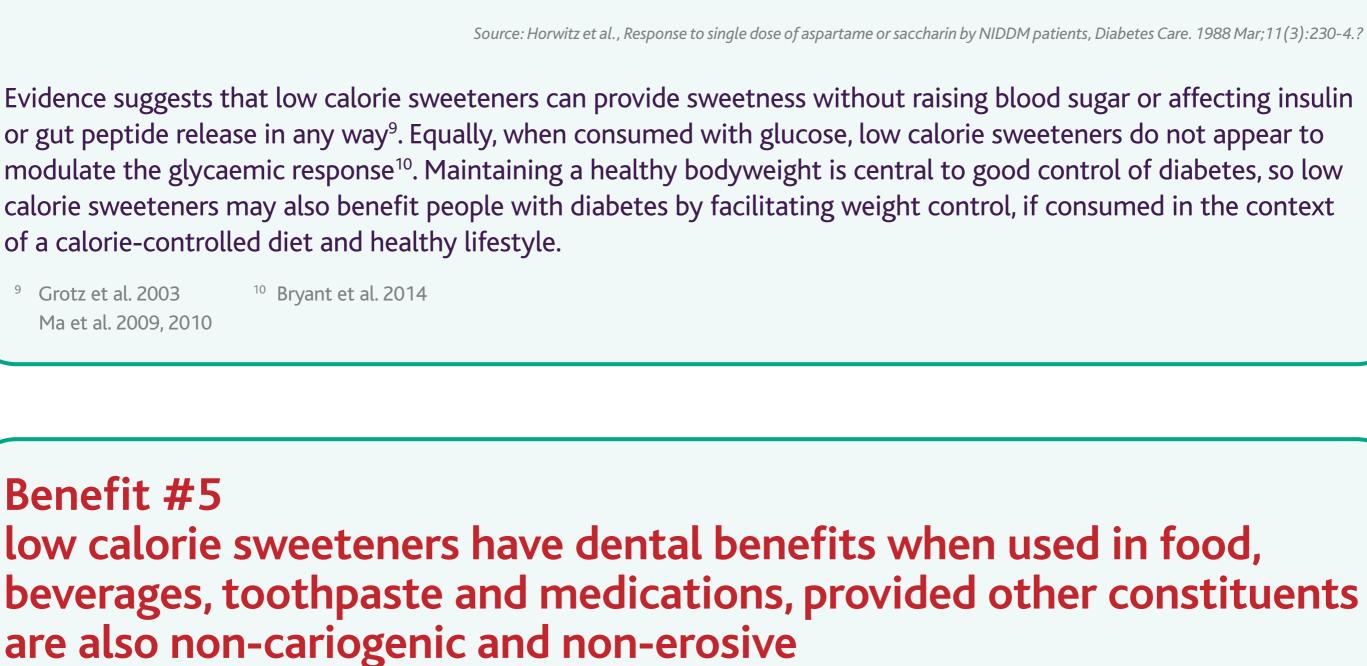
Benefit #4 low calorie sweeteners can have a beneficial effect on post-prandial glucose and insulin in healthy individuals and in people with diabetes



Benefit #5

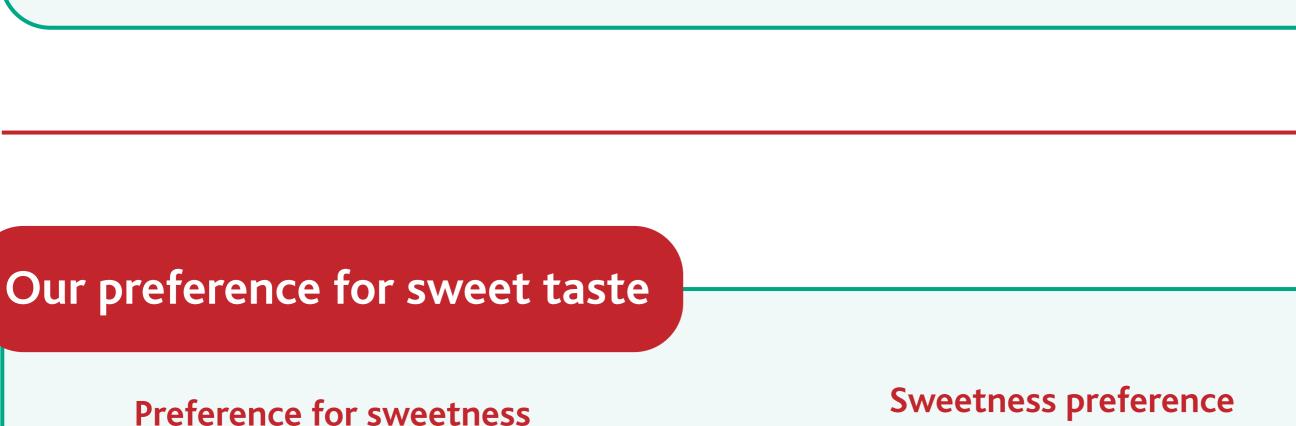
cause tooth decay¹¹.

¹¹ Grenby 1991

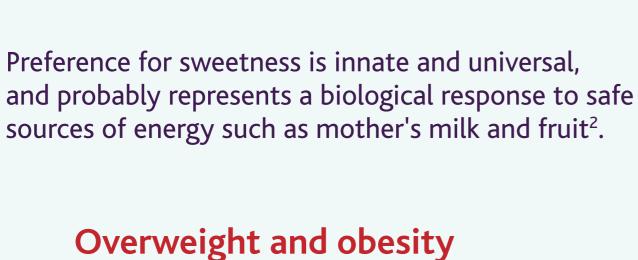


90

low calorie sweeteners are non-cariogenic, which means that they are not fermented by oral bacteria and do not



universal innate





Given current concerns about overweight and obesity, low-calorie sweeteners are increasingly used to replace sugar and supply sweetness without calories, providing a number of benefits to people looking to moderate their energy intake¹².

¹² (Anderson et al. 2012) ¹³ (Ventura & Mennella 2011). ¹⁴ (Keskitalo et al. 2007; Drewnowski et al. 2012).



social environments and cultures¹³

declines with age

age

Evidence suggests that sweetness preference declines with age, is partly heritable and varies among social environments and cultures¹⁴.