

Reference Material

Ethylene oxide in ice cream powder

P2223-RMIce2



- Summary -

Please note:

Reference material P2223-RMIce2 is a validated control material and not a certified reference material. The reference material is validated in the ring test P2223-RT, which is organised, performed and evaluated according to the requirements of DIN EN ISO/IEC17043 and the “International Harmonized Protocol”. DIN ISO13528 is considered during the evaluation of the submitted results and during homogeneity testing. Details related to the applied statistics are summarised in the full specification, which is provided after purchase of the reference material.

Reference material P2223-RMIce2 consists of 120 g of an ice cream powder. Ingredients of the ice cream powder are powder glucose syrup, dextrose, thickener E410 (locust bean gum), E466, E407, E440, and emulsifier E471. The ice cream powder is not spiked, it was contaminated with ethylene oxide/2-chloroethanol probably by the ingredient locust bean gum.

The reference material is validated in ring test P2223-RT with 10 laboratories. The assigned value, which is calculated of the results of the participants of the ring test P2223-RT, is summarised in table 1.

Table 1. Assigned value

Parameter	Assigned value [mg/kg]	Total number of results
Ethylene oxide*	0.714	10

* Sum of ethylene oxide and 2-chloroethanol expressed as ethylene oxide acc. to regulation (EC) 396/2005.