

# TECHNICAL SERVICE BULLETIN

## 19-009



**Date Issued:** March 1, 2019

**Subject:** Frost-Free Freezers, Storage of VALIDATE® Products at Freezer Temperatures

**Explanation:** Some LGC Maine Standards' VALIDATE® products require storage in a non-frost-free freezer in order to preserve the integrity of the product throughout the entire dating period.

The following is a brief explanation of the dynamics of a frost-free freezer: A frost-free freezer has three additional parts including a timer, a heating coil and a temperature sensor. Approximately every six hours, the timer turns the heating coil on which is wrapped among the freezer coils. The heating coil melts the ice from the freezer coils. Once all of the ice has melted from the freezer coils, the temperature sensor senses the temperature rising above 32°F (0° C) and turns the heating coil off.

As described above, the freezer coils are heated every six hours. This process also cycles the product through the same temperature changes and may affect the stability of frozen materials.

If you do not have a non-frost-free freezer, store VALIDATE® products requiring freezer temperatures in a covered Styrofoam container with ice packs, away from the heating coils.

Please refer any questions related to this bulletin to LGC Maine Standards' Technical Support Department.

Please retain this bulletin for your records.

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