

## ViviGen® Temperature FAQ

## What if a temperature excursion outside of the recommended storage conditions occurs? Is the graft still considered viable?

- ViviGen contains viable bone cells. It is important that the cells are kept alive prior to implantation. Temperature fluctuations during storage can impact cell health.
- In regards to cell viability, the following conditions should be considered if a temperature excursion is experienced. If the temperature excursions the grafts have experienced stayed within the limits identified below (temperature, time, and number of events); the grafts in question will be deemed acceptable per release quality criteria regarding cell viability:
  - I. ViviGen grafts are stored at -70°C or colder until ready to use (see recommended storage condition)
  - 2. At any point, ViviGen grafts must not experience a temperature higher than -50°C for any amount of time. If the grafts experience temperatures higher than -50°C, the cell viability cannot be assured as per the original release criteria.
  - 3. In case of an excursion beyond the requirement stated in bullet 1,ViviGen grafts must not experience temperatures between -70°C and -50°C for longer than 48 hours per occurrence for a total of three different occurrences. This means that:
    - a. If grafts experience excursions above -70°C but below -50°C for <u>longer</u> than 48 hours, the cell viability cannot be assured as per the original release criteria; and/or
    - b. If grafts experience <u>more</u> than 3 events of excursions above -70°C but below -50°C, the cell viability cannot be assured as per the original release criteria.

## What if a temperature excursion outside of the recommended storage conditions occurs? Is the graft still considered safe?

• Yes, the ViviGen graft is still considered safe. The temperature excursions expressed above would not impact the safety of the product through the expiration date.

