

In vivo testing (Rat)

The temperature sensor and commercial reference were fixed to the left thigh muscle of the rat. We recorded 6 sets of data at intervals of about 1 min, and the results showed that the difference between the temperature sensor and the commercial reference was always within 0.2 °C. The resolution of our temperature sensor was within 0.05 °C, meanwhile, there was no obvious noise found when working in vivo. Therefore, experiments in vitro and in vivo have reached similar conclusions: the temperature sensor has the characteristics of high accuracy and high resolution. The temperature sensor is suitable for implantable tissue/organ temperature measurement for various applications.

