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LIFE SUPPORT SYSTEMS RELATED TO GRAVITY IN SJ-10 AND TG-2 SATELLITE SPACE FLIGHT EXPERIMENTS

Abstract

SJ-10 and TG-2 satellites provide a support system for animal cell culture and plant growth. The system can provide light, water supply, nutrient solution supply, temperature control, macro imaging and microscopic imaging. The system provides a good spatial microgravity environment for the life science experiment. After the in-orbit flight experiment, the corresponding scientific data are obtained, and the preliminary results are obtained. This paper lists typical plant growth conditions and animal cell growth, to illustrate the role of life support system for spatial microgravity biology experiments.