

In-Situ Observation of Protein Crystal Growth in The International Space Station

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In-situ observation of protein crystal growth was conducted at the international space station in 2012. Both growth rate and surface topography of lysotyme crystals vs supersaturation and purity of the solution were measured for the first time by interferometry in space. The differences from ground-based experiments became clear to answer the question "Why better crystal could be grown in space?".

Keywords: crystal growth, space experiment, microgravity