

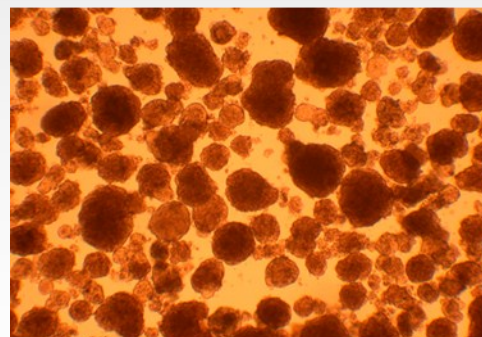
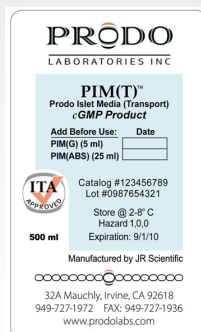
TECHNICAL NOTES PIM(T)[®]: cGMP Prodo Islet Media (Transport)

Description

PIM(T)[®] is a new, proprietary islet media from Prodo Laboratories manufactured under cGMP, specifically designed for cold storage of isolated islets that permits both short and long term islet shipping and storage. The new PIM(T)[®] formulation provides excellent cold storage of islets without loss of islet compactness observed with the alternatives. Unlike most all other transport media for islets, this PIM(T)[®] formulation permits islets to be cultured at normal islet culture temperatures (37°C) following their shipment without removing it. Most other islet transport media contain intracellular salts and other ingredients that are quite toxic to islets at temperatures > 15°C and require cold storage and handling until the transport media is completely removed. When teamed with Prodo's new culture media, PIM(S)[®] and PIM(R)[®], the islets transported with PIM(T)[®] can be directly transferred from the transport container to the tissue culture incubator and undergo only a 50% media change with PIM(S)[®] or PIM(R)[®]. PIM(T)[®] also permits long term cold tissue culture of islets for ~3 weeks without significant loss of islet mass, viability, or function. These unique characteristics set PIM(T)[®] apart from the alternatives for considerations of islet cold storage and shipping.

Uniqueness

- cGMP Manufactured with QC/QA Specifications
- Permits long term islet culture out to 21 days
- Use with prescreened 5% Human AB Serum
- Glutamine / Glutathione mixture as separate additive
- Approved for use in clinical and research applications
- Tested superiority in islet recovery, function, and insulin content over other islet specific media available
- Each lot ITA Approved by Islet Testing Authority prior to release for sale
- Part of Biological Master File application with the FDA
- Similar effectiveness in non-human primate islet culture



Comparative Outcomes

Study Three days after isolation stored in PIM(S)[®] media at 37°C in T 175 flasks, human islets were divided and placed in 24 well plates with different Cold Storage Agents and placed at 10°C for 72 hours when outcomes were measured in each. The plates with these islets were returned to 37°C for an additional 72 hours when outcomes were measured in each. A control 24 well plate with islets PIM(S)[®] media at 37°C was measured at the same times.

Results Only cold storage in PIM(T)[®] prevented losses in Islet Viability, Purity, and Compactness compared to the other cold storage agents.

