PRODO
LABORATORIES INC

Tel: (949)727-1972 32A Mauchly, Irvine , CA 92618 www.prodolabs.com

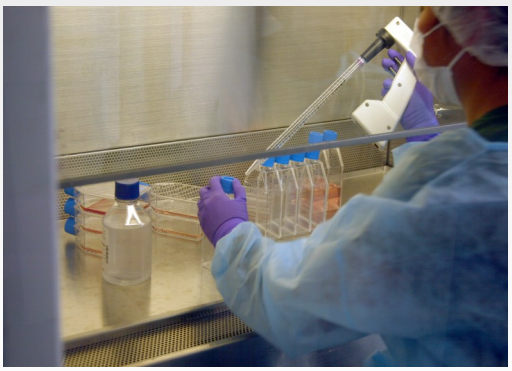
TECHNICAL NOTES | PIM(S)®: cGMP Prodo Islet Media (Standard)

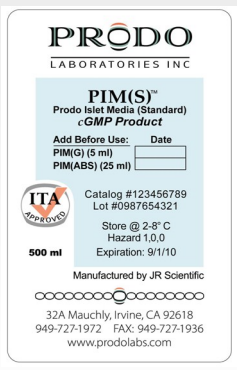
Description

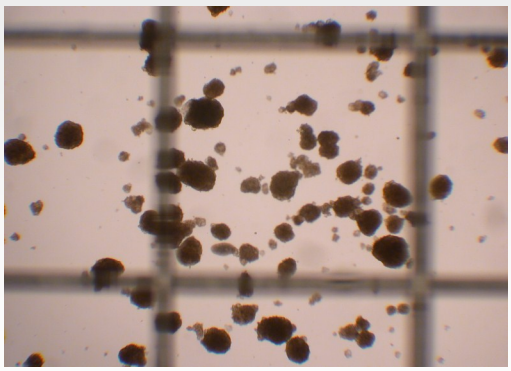
PIM(S)® is a new Prodo Labs islet specific media that is manufactured under cGMP conditions for use in human islet culture for clinical transplantation and for research. It is designed for long term tissue culture of islets from 2 to 21 days at 37°C. It is enhanced with specific components that permit long term culture of healthy islets that maintain their glucose responsiveness, insulin content, and suitability for implantation. It currently is designed to be used with 5% Human AB Serum that is pretested for islet suitability.
It does not contain any animal proteins or growth factors and has a glucose concentration of 5.8 mM.

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**
- **Does not contain any animal products**







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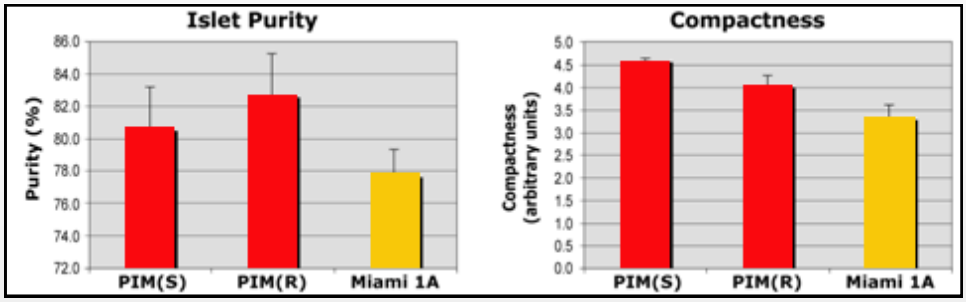
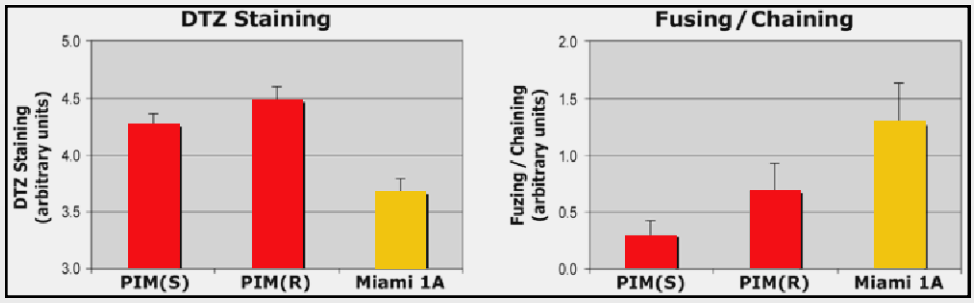
Comparative Outcomes

Morphologic Human Islet Results from Culture in Different Media: PIM(S)®, PIM(R)®, & Miami 1A

Results in culturing islets in different media at 37°C up to 7 days:

- Superiority of PIM(R)® & PIM(S)® in Islet Purity, Compactness, Insulin Staining, & reduced Fusing / Chaining over use of Miami 1A media
- Short term use of PIM(R)® increases recovery with long term use of PIM(S)® advised





Functional Human Islet Results from Culture in Different Media: PIM(S)®, PIM(R)®, & Miami 1A

Results in culturing islets in different media at 37°C up to 7 days:

- Superior islet function of PIM(R)® followed by PIM(S)®; Miami 1A media with lowest function response
- Insulin content highest in PIM(R)® and PIM(S)® with lower levels in Miami 1A media