

## INSTRUCTIONS

## MEDIA PREPARATION AND USE FOR PIM(R)<sup>®</sup>, PIM(S)<sup>®</sup>, PIM(T)<sup>®</sup>, PIM(G)<sup>®</sup> and PIM(ABS)<sup>®</sup>

### PRECAUTIONS

It is recommended to thaw the PIM(G)<sup>®</sup> and PIM(ABS)<sup>®</sup> supplements overnight at 2 to 8°C prior to use. The PIM<sup>®</sup> series of media (PIM R,S,T,G,ABS)<sup>®</sup> are stable for 60 days, when they are stored in the dark at 2 to 8°C. At 30 days, it is required that PIM(G)<sup>®</sup> be re-supplemented.

### STORAGE

PIM(R)<sup>®</sup>, PIM(S)<sup>®</sup>, PIM(T)<sup>®</sup>: Store at 2 to 8°C in the dark

PIM(G)<sup>®</sup> and PIM(ABS)<sup>®</sup>: Store at -5 to -20°C in the dark

### MEDIUM PREPARATION

Aseptically add the components to make the complete medium.

For PIM(R)<sup>®</sup> Complete\* : 469.5ml PIM(R)<sup>®</sup>, 25ml PIM(ABS)<sup>®</sup>, 5ml PIM(G)<sup>®</sup>,

For PIM(S)<sup>®</sup> Complete\* : 469.5ml PIM(S)<sup>®</sup>, 25ml PIM(ABS)<sup>®</sup>, 5ml PIM(G)<sup>®</sup>,

For PIM(T)<sup>®</sup> Complete\* : 482ml PIM(T)<sup>®</sup>, 12.5ml PIM(ABS)<sup>®</sup>, 5ml PIM(G)<sup>®</sup>,

\*Antibiotics: We use the following combination in each PIM Complete medium:

- Ciprofloxacin-0.5ml of a 10mg/ml solution
- Gentamicin-0.5ml of a 10mg/ml solution
- Amphotericin B-5ml of a 250mcg/ml solution

### PHYSICAL CONDITIONS

Standard physical conditions for human islet cells that are maintained in PIM(R)<sup>®</sup> or PIM(S)<sup>®</sup> Complete are at a temperature of 37°C, in a humidified atmosphere containing 5% of CO<sub>2</sub>. Using standard aseptic conditions, islet cultures may be maintained in PIM(R)<sup>®</sup> or PIM(S)<sup>®</sup> Complete Medium, provided they are on non-coated tissue culture treated vessels.

- PIM(R)<sup>®</sup> is specifically formulated for culturing islets within the first 48hours after a process. It enables the islets to round up with increased glucose responsiveness. After 48hours, it is recommended to switch to PIM(S)<sup>®</sup>, as continued use of PIM(R)<sup>®</sup> will lead to islet fusion.
- PIM(S)<sup>®</sup> is specifically formulated for long-term islet culturing from 2-14 days at 37°C. It is enhanced with specific components that will reduce islet chaining. PIM(S)<sup>®</sup> and PIM(R)<sup>®</sup> can be used to extend culturing past four weeks, when our long-term culturing protocol is followed.
- PIM(T)<sup>®</sup> is specifically formulated to transport islets for up to 5 days, while maintaining viability and functionality. Shipping requires a temperature of 6-10°C.

