

Resource Summary Report

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Viability Estimation of Islets for Distribution Using Inclusion and Exclusion Fluorescent Dyes (FDA/PI)

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Type: Protocol

Proper Citation

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Protocol Information

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Authors: Integrated Islet Distribution Program

Group: Integrated Islet Distribution Program

Summary: This Standard Operating Procedure is adapted from the work of the 'National Institutes of Health-Sponsored Clinical Islet Transplantation Consortium Phase 3 Trial: Manufacture of a Complex Cellular Product at Eight Processing Facilities' following the SOP cited in the document 'Purified Human Pancreatic Islet - Viability Estimation of Islet Using Fluorescent Dyes (FDA/PI): Standard Operating Procedure of the NIH Clinical Islet Transplantation Consortium'. This SOP defines the procedure for assessment of viability of human isolated islet preparations, which include endocrine and exocrine tissue, for use in the National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK) sponsored research in the Integrated Islet Distribution Program (IIDP). This protocol is written to assist the participating islet isolation centers and investigators who are part of this program. Fluorescein Diacetate/ Propidium Iodide (FDA)/(PI) Viability Assay is a rapid fluorometric method to test the integrity of the plasma membrane simultaneously using inclusion and exclusion dyes; the assay differentiates between viable and nonviable cells and is, consequently, used for determination of viability of islet preparations.

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