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PharmaCyte Biotech announces encapsulation of live cells for clinical trials in pancreatic cancer

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PharmaCyte's therapy for Type 1 diabetes and insulin-dependent Type 2 diabetes involves encapsulating a human cell line that has been genetically engineered to produce, store and release insulin in response to the levels of blood sugar in the human body.

PharmaCyte Biotech, a biotechnology company focused on developing targeted cellular therapies for cancer and diabetes using its signature live-cell encapsulation technology, Cell-in-a-Box has announced PharmaCyte's partner, Austrianova, has successfully encapsulated the live cells used in PharmaCyte's therapy for its planned clinical trial in patients with locally advanced, non-metastatic, inoperable pancreatic cancer (LAPC). The cells are now growing and dividing inside the Cell-in-a-Box capsules.

PharmaCyte's Chief Executive Officer, Kenneth L. Waggoner, said, "We are now in the process of monitoring the growth and division of the live cells as they spend more time in a 'nutrient bath.' This will allow the cells to continue to grow and divide and then completely fill the capsules. Once the capsules are completely full of live cells, they will be placed into syringes and frozen. Austrianova will then commence testing the capsules in the frozen syringes to finalize PharmaCyte's clinical trial material."

Since its pre-production "engineering runs" in late 2018, Austrianova has further enhanced the manufacturing process and equipment. Once the testing of the syringes is successfully completed, the data and reports generated from this process will

allow the completion of the Investigational New Drug application (IND) that must be submitted to the U.S. Food and Drug Administration (FDA) to apply for approval to begin a clinical trial in LAPC.