Table S1, SDC. Assessing the degree of pericapsular fibrosis using cell adhesion score

<table>
<thead>
<tr>
<th>Portion of microcapsule surface infiltrated by fibrotic cells</th>
<th>0%</th>
<th>&lt;50%</th>
<th>&gt;50%</th>
<th>100%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Score index</td>
<td>0</td>
<td>3.3</td>
<td>6.6</td>
<td>10</td>
</tr>
</tbody>
</table>

Cell adhesion score

\[
\text{Cell adhesion score} = \left( 0 \times \frac{\text{Number of capsules with 0\% cell adhesion}}{\text{Total number of capsules}} \right) \\
+ \left( 3.3 \times \frac{\text{Number of capsules with < 50\% cell adhesion}}{\text{Total number of capsules}} \right) \\
+ \left( 6.6 \times \frac{\text{Number of capsules with > 50\% cell adhesion}}{\text{Total number of capsules}} \right) \\
+ \left( 10 \times \frac{\text{Number of capsules with 100\% cell adhesion}}{\text{Total number of capsules}} \right)
\]

Figure S1, SDC. Viability of naked and chitosan/alginate encapsulated canine islet in vitro

Figure S2, SDC. Transmission electron microscopic image of capsules and islet viability at 1 day after encapsulation

(A-C) Transmission electron microscopic image of capsules after chitosan coating for 5, 10 and 15 min.

(D-F) Acridine orange and propodium iodide (AO/PI) staining of encapsulated islets after
chitosan coating for 5, 10 and 15 min.

Figure S3, SDC. Changes in blood glucose level and graft survival after xenogeneic porcine islet transplantation in BALB/c mice.

(A) Blood glucose level after transplantation of naked (open triangle), alginate (open circle) and chitosan-alginate (closed circle) encapsulated islets.

(B) Graft survival curve after transplantation.