# Product Information

<table>
<thead>
<tr>
<th><strong>PRODUCT NAME:</strong></th>
<th>Thyroid Fibroblasts</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CAT NUMBER:</strong></td>
<td>AE009-F</td>
</tr>
<tr>
<td><strong>DISEASE STATE:</strong></td>
<td>Normal</td>
</tr>
<tr>
<td><strong>QUANTITY:</strong></td>
<td>5.0 x 10⁵ cells</td>
</tr>
<tr>
<td><strong>STORAGE CONDITION:</strong></td>
<td>Store at -196°C (LN2) upon receipt until ready to culture</td>
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<tr>
<td><strong>STORAGE SOLUTION:</strong></td>
<td>10% DMSO</td>
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**PRODUCT DESCRIPTION:** Thyroid fibroblasts are derived from the outgrowth of thyroid explants of a single donor. These cells enable researchers to study several different hyper and hypo thyroidism diseases in vitro as fibroblast may play a critical role in the formation of disease. In addition, they may be suitable for safety and toxicity testing of novel compounds.

**HANDLING INSTRUCTIONS:** Frozen cells are shipped on dry ice. Upon arrival, place into -196°C (LN2) for long term storage or subculture ([www.dvbiologics.com](http://www.dvbiologics.com)) immediately.

**REFERENCES:**


**QUALITY CONTROL:**

All cell processing is validated under strict protocols with IRB approval (see ethics statement [www.dvbiologics.com](http://www.dvbiologics.com)). All cells are guaranteed to meet or exceed customer’s expectations when handled according to instructions.

**TEST CONDITIONS:**

A sample is inoculated in growth medium and incubated for 14 days to test for sterility. Frozen cells are thawed, enumerated, and cultured, as applicable, according to DV Biologics protocols, and assayed for the presence of mycoplasma, as applicable, or HBV, HCV, HIV-1, and HIV-2 by serology or by RT-PCR. A lot of cells is released when no microbial growth is detected; when the number of viable cells and the percent viability meet or exceed DV Biologics requirements; and when the assays are negative.

**OTHER INFORMATION:** Human origin, single donors

**DEVELOPMENT PERIOD:** Adult

**PRECAUTIONS AND DISCLAIMERS:**

**Warranty**

DV Biologics is committed to providing only superior quality research products. DV Biologics products are specifically intended for research purposes only, and are guaranteed to perform according to documented product specifications. Full warranty information for the products may be requested from our technical support or sales team at the number provided above.

**Product Use/Safety Statement**

**PRODUCT IS FOR RESEARCH USE ONLY.** Not approved for human or veterinary use, in-vitro diagnostics, or clinical procedures.

**WARNING: THE ACCOMPANYING PRODUCT CONTAINS HUMAN SOURCE MATERIAL, TREAT AS POTENTIALLY INFECTIOUS.** All donors are tested for the presence of HIV-I, HIV-2, Hepatitis B and Hepatitis C Virus.

**Material Safety and Data Sheet (MSDS)**

Available upon request.
CHARACTERIZATION:

Phase Contrast:

A) Passage 1 cells
B) Passage 2 cells

Staining for Antibodies:

C) Vimentin
D) Fibroblast

RT-PCR Expression of Fibroblast Markers:

Lane 1) No RT control; Lane 2) GAPDH control; Lane 3) α-SMA; Lane 4) Desmin; Lane 5) CD34

Growth Curve: