



## DF-1 Immortalized Cell Line

This world-wide patented cell line, DF-1, uses an FDA approved method of producing vaccines that reduce vaccine production costs and time to commercialization. The cell line is also useful for recombinant protein production.

### Features & Benefits

- **World's only retroviral negative spontaneous cell line**
- Chicken Embryo Fibroblast Cell line, DF-1. Derived from East Lansing Line (ELL-0) chicken embryos.
- Spontaneous, non-tumorigenic, stable, immortal cell line
- Cells are reverse transcriptase negative
- Cells useful for propagating avian and non-avian virus
- Can be used to express recombinant viruses, such as retroviruses
- Compatible with existing vaccines
- Can be used for creating both animal and human vaccines
- Cells are easily transfected for gene expression

### IP Status

- World-wide issued patents claims include:
  1. Methods for making immortalized cells
  2. Methods for propagating virus in DF-1 cells
  3. ATCC# CRL-12203 DF-1 cell line claims methods for producing recombinant viruses in DF-1 cells
  4. DF-1 cells containing recombinant viruses
  5. Methods for producing recombinant proteins in DF-1 cells

### Technology Status

Fully developed with demonstrated efficacy

### Primary Inventor

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