

# CellGenix® Preclinical & GMP Cytokines are free of Animal-Derived Components

We follow a strict animal-derived component-free (ADCF) policy to ensure maximum safety of our preclinical and GMP cytokines. As a result, you can be sure that all our CellGenix® preclinical and GMP cytokines are free of any animal or human-derived components.

## Why use cytokines free of animal-derived components (ADC)?

- Minimize potential variables associated with animal or human-derived components.
- Eliminate the risk of introducing biological contaminants in your cell and gene therapy process.
- Speed your time to market & save money: no viral safety studies needed.

Our cytokine product portfolio is divided into two distinct ADCF levels:

### ADCF Level 2

#### Animal-Free Facility:

No ADC in product and production process

- **Highest safety level:** no exposure to animal or human components or byproducts
- **Save time & money:** no viral safety studies needed

#### ADCF Level 2 Cytokines

CellGenix® rh IL-1β	CellGenix® rh Activin A
CellGenix® rh IL-2	CellGenix® rh EGF
CellGenix® rh IL-3	CellGenix® rh Flt-3L
CellGenix® rh IL-4	CellGenix® rh GM-CSF
CellGenix® rh IL-6	CellGenix® rh IFN-γ
CellGenix® rh IL-7	CellGenix® rh OSM
CellGenix® rh IL-10	CellGenix® rh PDGF-BB
CellGenix® rh IL-15	CellGenix® rh SCF
CellGenix® rh IL-21	CellGenix® rh TNF-α
	CellGenix® rh TPO

### ADCF Level 1

#### ADC Production Area:

No ADC in product, but ADC in production process

- Require animal or human expression system or ADC in production process
- **Safety:** documented evidence of viral/prion safety

#### ADCF Level 1 Cytokines

CellGenix® rh FGF-2
CellGenix® rh HGF
CellGenix® rh TGF-β1

## Raw Material Control

As part of our raw material control, all materials used in the production process are procured from reliable manufacturers and suppliers and their origin and impurity profile are assessed before use. Their safety is demonstrated by certificates of origin, TSE certificates, and validation reports as applicable.

To facilitate risk assessment by our customers we assess each raw material used to produce our cytokines for the absence of ADC in its manufacturing process. Whenever possible, raw materials are used that themselves were produced without the use of ADC.