

## Material Safety Data Sheet

Product: HeLa Whole cell pellets

References: CC-01-10-XX

### Overview

Product name	HeLa whole cell pellets
Catalog number	CC-01-10-XX (XX correspond to product size)
Description	This HeLa whole cell pellets are prepared from a sonoperfused fedbatch (cytostat) mode at a constant concentration of $5 \times 10^6$ cells/ml under GLP conditions. Cells are harvested in exponential phase. The volume of the frozen tube depends on the cell quantity (detailed in the table below).

#### HeLa whole cell pellets

References	Quantity	Product volume
CC-01-10-10	From $1.0 \times 10^9$ cells	4 ml
CC-01-10-25	From $2.5 \times 10^9$ cells	10 ml
CC-01-10-50	From $5.0 \times 10^9$ cells	20 ml

### Properties

Formulation	Cell pellets are prepared by low speed centrifugation, rinsed with phosphate buffer saline, snap frozen and stored at $-85^\circ\text{C}$ . Trace of phosphate buffer saline can be found. The cell pellets are not prepared in aseptic conditions and are not intended to be used as seed for a new culture.
Storage instructions	Stable at $-80^\circ\text{C}$ for 6 months from date of shipping. Avoid freeze/thaw cycles.
Shipping condition	Shipped on dry ice
Extract origin	HeLa cells are human epithelial cells from a cervical carcinoma biopsy. The cell line was derived from cervical cancer cells taken from Henrietta Lacks, in 1951. Horizontal gene transfer from human papillomavirus 18 (HPV18) to human cervical cells created the HeLa genome which is different from either parent genome in various ways including its number of chromosomes.
Appearance	Opaque
Odor	None
Physical properties	Not determinate
Chemical properties	Not determinate

## Precautionary measures

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Hazard identification	Bio-hazard
Containment level	Are suitable for use in containment level 1 where local assessments permit
If swallowed	Not determinate
If inhaled	Note determinate
If in contact with skin or eyes	Rinse profusely with water
Toxicological Information	Not determinate
Accidental release	Clean spill area as per local procedures
Handling and storage	Follow local procedures for bio-hazard
Exposure control	Not determinate
Personal protection	Follow local rules
Ecological information	Not determinate
Disposal considerations	Sterilize material in contact with the product following local procedures
Transport information	Non-hazardous for road, sea and air freight (as per CDG UK: IMDG, IATA)
Fire-fighting measure	Non-flammable product. No fire-fighting measures required

## Applications

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This HeLa whole cell pellets are intended for research use only (not for diagnostic or therapeutic use). HeLa whole cell pellets are useful in a wide variety of experiments as (but not exhaustive):

- Entities production and purification of biological material from human origin used in many other applications
- Biochemical processing
- Isolation of gDNA and RNA
- Fixation of the pellet
- Production of whole cell lysates
- Histochemistry

## Production

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Method	HeLa cytoplasm is prepared from cells grown in a sono-perfused fedbatch (cytostat) in 15L bioreactor under GLP conditions. Cells are produced at constant cell density with a viability over 95%. Cells are harvested in exponential phase.
Quality Control	Quality Control Cultures are screened for the presence of bacteria, yeast, fungi and mycoplasma (DNA amplification). NBCS used in the culture medium is certified from New Zealand origin