

Material Safety Data Sheet

Product: HeLa cytoplasm S100

References: CC-01-41-XX

Overview

Product name	HeLa cytoplasm S100
Catalog number	CC-01-41-XX (XX correspond to product size)
Description	Cytoplasm S100 is rich in slicing factors including snRNPs, hnRNPs and debranching enzymes. The volume of the frozen tube depends on the cell quantity used to produce cytoplasmic S100 (detailed in the table below).

HeLa cytoplasm S100

<i>References</i>	<i>Quantity</i>	<i>Product volume</i>
CC-01-41-005	From 50 x 10 ⁶ cells	420 ul
CC-01-41-10	From 2.5 x 10 ⁹ cells	8.4 ml
CC-01-41-25	From 2.5 x 10 ⁹ cells	21 ml
CC-01-41-50	From 5.0 X 10 ⁹ cells	42 ml

Properties

Formulation	Clear cytoplasm S100 in a hypotonic buffer
Storage instructions	Stable at -80°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

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

HeLa cytoplasm S100 are intended for research use only (not for diagnostic or therapeutic use). HeLa cytoplasm S100 is useful in a wide variety of experiments as (but not exhaustive):

- In vitro splicing
- Protein-DNA/RNA and protein-protein interactions
- Source of individual splicing factors and other regulatory proteins

Production

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