

Product sheet

**Cell Culture P19 | 400416**

**General Information**

**Description** Cell Culture P19, derived from embryonic stem cells, is a pluripotent cell line used for various research purposes. It is maintained in a defined medium and is characterized by its ability to differentiate into various cell types. The cell line is derived from a C3H/He mouse. Taxonomy: Cell Culture P19 (Mus musculus) belongs to the domain Eukaryota, Animalia, Metazoa, Chordata, Vertebrata. It is a continuous cell line. Synonyms: Cell Culture P19, P19S18, P19D3, P19RAC65, P19C16. Cell Culture P19 is a pluripotent cell line that can differentiate into all three germ layers. It is used for studying cell differentiation, gene expression, and drug screening.

**Organism** Mus musculus

**Tissue** Embryonic stem cells

**Disease** Not applicable

**Synonyms** P-19

**Characteristics**

**Breed/Subspecies** C3H/He

**Gender** Male

**Morphology** Adherent cells

**Growth properties** High growth rate

**Identification**

**Citation** P19 (Cell Culture P19) Cytion 400416

**Biosafety level** 1

**NCBI\_TaxID** 10090

**CellSaurusAccession** CVCL\_2153



**Amelogenin P19 | 400416**

**Thawing and Culturing Cells**

1. **Thawing:** Thaw the vial immediately in a 37°C water bath. Do not allow the sample to reach room temperature.
2. **Centrifugation:** Centrifuge the vial at 1500 x g for 5 minutes at 4°C. Remove the supernatant and resuspend the pellet in 100 µl of the provided medium.
3. **Seeding:** Seed the cells into a 96-well plate at a density of 100,000 cells per well. Incubate at 37°C with 5% CO<sub>2</sub> for 24 hours.
4. **Media Change:** After 24 hours, remove the medium and replace it with fresh medium. The cells should be approximately 70% confluent.
5. **Harvesting:** Harvest the cells after 15 days of culture. Use a 15 ml tube and a 8 ml pipette to collect the cells.
6. **Washing:** Wash the cells with PBS (300 x g, 3 minutes) to remove the medium. Resuspend the cells in 100 µl of PBS.
7. **Resuspension:** Resuspend the cells in 10 µl of the provided lysis buffer. Mix thoroughly by pipetting.
8. **Storage:** Store the DNA at -20°C. The DNA is stable for up to 12 months.

**Incubation Atmosphere** 37°C, 5% CO<sub>2</sub>, humidified air

**Flask Coating** No coating

**Freezing Procedure** The cells can be frozen in the provided medium. Store at -78°C.

**Shipping Conditions** The cells can be shipped at -78°C.

**Storage Conditions** The cells can be stored at -150 °C for 196 days.

**Amelogenin P19 / Amelogenin P19 / HLA**

**Sterility**

The DNA is sterile and free of PCR inhibitors. The DNA is suitable for PCR amplification.

The DNA is free of mycoplasma contamination. The DNA is free of endotoxins.

**Amelogenin STR** Amelogenin: x,x