

Product description

Tumorigenic epithelial ovarian cancer cell line derived from malignant ascites of a patient never exposed to chemotherapy or radiation therapy. Cell line retains characteristics of the original epithelial ovarian cancers from which it was derived.

Name: OV-90 cell line

Disease: Cancer

Cancer: Ovarian cancer

Cancer detailed: Adenocarcinoma

Organism: Human

Gender: Female

Tissue: Ovary

Donor: 64-year-old chemo naive female, Grade 3, stage IIIC.

Mutations: TP53 Exon 6, CDKN2A exon 2

Karyotype: 46, XX, der(1)t(1;10)(p36;p15), hsr(3)(p11), der(9;17)(q10;q10), der(10)t(10;17)(p15;p12p13), der(13)t(13;13)(p11;q14)

Tumorigenic: Yes

Growth properties: Adherent

CRISPR Edited: No

Contributor(s)

Inventor(s): Anne-Marie Mes-Masson and Diane Provencher **Institute:** Centre Hospitalier de L'université de Montréal

Product format: Frozen

Properties

Unpacking and storage:

- 1. Check all containers for leakage or breakage.
- 2. Remove the frozen cells from the dry ice packaging and immediately place the cells at a temperature below -130°C, preferably in liquid nitrogen vapor, until ready for use.

Recommended medium: OSE medium (Wisent® No. 316-030-CL) with 10% FBS, 0.5ug/mL amphotericin B and 50 ug/mL gentamicin.

CancerTools.org 2 Redman Place Stratford London E20 1JQ © www.cancertools.org CT-PDS-161765v1.0/10Apr2025



Subculture: Split confluent cultures 1:3, using 0.25% trypsin or trypsin/EDTA; 5% CO2; 37°C, every 3 days.

- **Cryopreservation:** Freeze in 90% FBS and 10% DMSO at a density of 2-3 million cells/mL at a controlled freezing rate of -1°C per minute.
- Culture conditions: 37.0°C ± 1.0°C incubator with 5.0% ± 1.0% CO₂

Handling instructions

- Please ensure that vials are frozen when received, and store at <-130 °C long term. When removing frozen cells from storage, it is important to minimize exposure to room temperature (15 - 25°C). If not proceeding directly to thawing, place the cells on dry ice or in a liquid nitrogen container.
- 2. **Do not thaw at room temperature.** To thaw, swirl the vial quickly in a 37 °C water bath with O-ring and cap above the water to avoid contamination. Remove from the water bath with a small ice pellet remaining (this should not take more than 2 minutes) and wipe the exterior with 70% ethanol or isopropanol before transferring to a biosafety cabinet. Further steps should be conducted under aseptic conditions.
- Immediately transfer the thawed cell suspension to a 100 mm culture dish containing 7 mL of media. Allow the cells to settle overnight and replace the culture medium the next morning. Incubate until >80% confluent.

Important notes:

- It is normal to see black granules in the culture medium. The cells are not affected by the appearance of these artefacts.

References

- Raspaglio et al. 2023. Cancers (Basel). 18;15(8):2361. PMID: 37190289
- Yee et al. 2022. Front Bioeng Biotechnol. 10;10:836984. PMID: 35223797
- Brodeur et al. 2021. Sci Rep. 14;11(1):18183. PMID: 34521878
- Buttarelli et al. 2022. J Exp Clin Cancer Res. 4;41(1):50. PMID: 35120576
- Provencher et al. 2000. In Vitro Cell Dev Biol Anim. (36): 357–361. PMID:10949993

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: OV-90 cell line, was invented by Anne-Marie Mes-Masson and Diane Provencher (CancerTools.org #161765).

PRODUCTS ARE FOR RESEARCH USE ONLY AND NOT INTENDED FOR HUMAN OR ANIMAL DIAGNOSTIC OR THERAPEUTIC USES UNLESS OTHERWISE STATED.

While CancerTools.org has made all reasonable efforts to ensure that the information provided by CancerTools.org and its suppliers is correct, it makes no warranties or representations as to the accuracy or completeness of such information.

CancerTools.org 2 Redman Place Stratford London E20 1JQ

© www.cancertools.org

CT -PDS-161765v1.0/10Apr2025