

AT-1 | 500121

General information

Description	AT-1 is a human melanoma cell line derived from a patient with a primary melanoma. It is a highly tumorigenic cell line that grows in suspension. It is characterized by its high growth rate and its ability to form colonies in soft agar. It is a good model for studying melanoma biology and for testing anti-melanoma drugs. Dunning, J. M., et al. (1976) J. Natl. Cancer Inst. 56: 115-121.
Organism	Human
Tissue	Melanoma
Disease	Melanoma
Synonyms	R-3327-AT-1, AT1, AT-1-TC, R-3327 AT-1, R3327-AT1

Cell morphology

Morphology	Epithelial
Growth properties	AT-1 cells are highly tumorigenic and grow in suspension. They are characterized by their high growth rate and their ability to form colonies in soft agar.

Cellular characteristics

Citation	AT-1 (Cytion 500121)
Biosafety level	1
NCBI_TaxID	10116
CellSaurusAccession	CVCL_3568

Cellular characteristics

Tumorigenic	Yes, highly tumorigenic in soft agar
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Media

Culture Medium	RPMI 1640, w: 2.0 mM Glucose, w: 2.0 g/L NaHCO3 (Cytion 820700a)
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Freezing
Procedure

1. The sample is centrifuged at 1500 x g for 5 minutes at 4°C. The supernatant is removed and the pellet is resuspended in 100 µl of lysis buffer. The lysis buffer is added to the pellet and the mixture is vortexed for 10 seconds. The mixture is then incubated at 56°C for 30 minutes. The mixture is then cooled to room temperature and the DNA is extracted using the QIAzol Lysis Reagent. The DNA is then purified using the RNeasy Spin Column. The DNA is then quantified using the NanoDrop. The DNA is then stored at -78°C.

Shipping
Conditions

1. The sample is centrifuged at 1500 x g for 5 minutes at 4°C. The supernatant is removed and the pellet is resuspended in 100 µl of lysis buffer. The lysis buffer is added to the pellet and the mixture is vortexed for 10 seconds. The mixture is then incubated at 56°C for 30 minutes. The mixture is then cooled to room temperature and the DNA is extracted using the QIAzol Lysis Reagent. The DNA is then purified using the RNeasy Spin Column. The DNA is then quantified using the NanoDrop. The DNA is then stored at -78°C.

Storage
Conditions

1. The sample is centrifuged at 1500 x g for 5 minutes at 4°C. The supernatant is removed and the pellet is resuspended in 100 µl of lysis buffer. The lysis buffer is added to the pellet and the mixture is vortexed for 10 seconds. The mixture is then incubated at 56°C for 30 minutes. The mixture is then cooled to room temperature and the DNA is extracted using the QIAzol Lysis Reagent. The DNA is then purified using the RNeasy Spin Column. The DNA is then quantified using the NanoDrop. The DNA is then stored at -150 to 196 °C.

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Sterility

1. The sample is centrifuged at 1500 x g for 5 minutes at 4°C. The supernatant is removed and the pellet is resuspended in 100 µl of lysis buffer. The lysis buffer is added to the pellet and the mixture is vortexed for 10 seconds. The mixture is then incubated at 56°C for 30 minutes. The mixture is then cooled to room temperature and the DNA is extracted using the QIAzol Lysis Reagent. The DNA is then purified using the RNeasy Spin Column. The DNA is then quantified using the NanoDrop. The DNA is then stored at -78°C.

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