

MS1 | 305162

MS1

Description	MS1 is a murine myeloid leukaemia cell line derived from a C57BL/6 mouse. It is characterized by the presence of the BCR-ABL fusion gene, which is a hallmark of chronic myeloid leukaemia (CML). The cells are highly proliferative and can be maintained in the presence of the tyrosine kinase inhibitor (TKI) imatinib (Gleevec). MS1 cells are used as a model for studying the pathogenesis of CML and for testing new therapeutic approaches.
-------------	--

Organism	Mouse
----------	-------

Tissue	Myeloid, Bone marrow, Spleen
--------	------------------------------

Synonyms	MILE SVEN 1, Mile Sven 1, MILE SVEN1, MS-1
----------	--

MS1

Breed/Subspecies	C57BL/6
------------------	---------

Age	Adult
-----	-------

Morphology	Myeloid
------------	---------

Growth properties	Adherent
-------------------	----------

MS1

Citation	MS1 (Cytion 305162)
----------	---------------------

Biosafety level	1
-----------------	---

NCBI_TaxID	10090
------------	-------

CellosaurusAccession	CVCL_6502
----------------------	-----------

GMO Status	GMO-S1: MS1, SV40 T antigen (SV40 T)
------------	--------------------------------------

MS1

MS1

MS1 | 305162

Culture Medium DMEM, w: 4.5 g/L D-glucose , w: 4 mM L- glutamine , w: 3.7 g/L NaHCO_3 , w: 1.0 mM NaH_2PO_4 (Cytion 820300a)

Supplements FBS 10%

Dissociation Reagent Trypsin

Subculturing Cells are grown in DMEM supplemented with 10% FBS in T25, 3-5 cm^2 FBS , 3 cm^2 FBS flasks, cells are grown in DMEM supplemented with 10% FBS in T25, 3-5 cm^2 FBS , 3 cm^2 FBS flasks.

Fluid renewal 2-3 times per week

Freeze medium DMEM supplemented with 10% FBS + 10% DMSO (Cytion 820300a)

Thawing and Culturing Cells

1. Cells are thawed in a water bath at 37°C, then transferred to a flask containing DMEM supplemented with 10% FBS .
2. Cells are grown in DMEM supplemented with 10% FBS in T25, 3-5 cm^2 FBS , 3 cm^2 FBS flasks.
3. Cells are grown in DMEM supplemented with 10% FBS in T25, 3-5 cm^2 FBS , 3 cm^2 FBS flasks.
4. Cells are grown in DMEM supplemented with 10% FBS in T25, 3-5 cm^2 FBS , 3 cm^2 FBS flasks.
5. Cells are grown in DMEM supplemented with 10% FBS in T25, 3-5 cm^2 FBS , 3 cm^2 FBS flasks.
6. Cells are grown in DMEM supplemented with 10% FBS in T25, 3-5 cm^2 FBS , 3 cm^2 FBS flasks.
7. Cells are grown in DMEM supplemented with 10% FBS in T25, 3-5 cm^2 FBS , 3 cm^2 FBS flasks.
8. Cells are grown in DMEM supplemented with 10% FBS in T25, 3-5 cm^2 FBS , 3 cm^2 FBS flasks.

Incubation Atmosphere 37°C, 5% CO_2

Flask Coating FBS 10%

MS1 | 305162

Freezing
Procedure

Freeze the sample in a cryovial in a controlled freezing environment at -78°C.

Shipping
Conditions

Store and ship the sample at -78°C.

Storage
Conditions

Store the sample at -150 to -196°C in a cryovial.

MS1 / MS2 / HLA

Sterility

The sample is sterile and can be used for PCR analysis. The sample is not suitable for cell culture or other applications requiring a sterile environment.