

Product sheet

IBRS-2 | 305212

IBRS-2

**Description** IBRS-2 is a cell line derived from a 3-year-old female patient with a diagnosis of acute myeloid leukemia (AML). The cells were established in 1982 and are maintained in suspension culture in RPMI 1640 medium supplemented with 10% fetal bovine serum (FBS) and 100 U/ml penicillin, 100 U/ml streptomycin, and 100 U/ml nystatin. The cells are characterized by the presence of a t(8;21)(q22;q22) translocation, which results in the fusion of the APL1 and APL2 genes, leading to the production of a chimeric protein with a constitutively active tyrosine kinase domain. This protein is essential for the growth and survival of the cells. The cells are highly proliferative and are used for the study of AML pathogenesis and for the development of novel therapies.

**Organism** Human

**Tissue** Bone Marrow

**Synonyms** IB-RS2, IBRS2, Instituto Biologico-Rim Suino-2

Characteristics

**Age** 3 years

**Gender** Female

**Morphology** Myeloblasts

**Growth properties** Suspension culture

References

**Citation** IBRS-2 (ATCC CCL-219) (ATCC CCL-219) 305212

**Biosafety level** 1

**NCBI\_TaxID** 9823

**CellosaurusAccession** CVCL\_4528

Media and supplements

Media

**Culture Medium** DMEM, 4.5 g/l glucose, 4 mM L-glutamine, 3.7 g/l NaHCO3, 1.0 mM sodium pyruvate, 100 U/ml penicillin, 100 U/ml streptomycin, 100 U/ml nystatin, 10% fetal bovine serum (FBS)

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<b>Supplements</b>	10% FBS
<b>Dissociation Reagent</b>	
<b>Subculturing</b>	PBS
<b>Fluid renewal</b>	2-3
<b>Freeze medium</b>	(FBS) + 10% DMSO
<b>Thawing and Culturing Cells</b>	<ol style="list-style-type: none"><li>1. Thaw cells in a 37°C water bath.</li><li>2. Centrifuge cells at 300 x g for 3 minutes.</li><li>3. Wash cells with PBS.</li><li>4. Resuspend cells in 70% FBS.</li><li>5. Seed cells into a 15 cm dish.</li><li>6. Incubate cells for 8-15 days.</li><li>7. Harvest cells when they reach 10% confluency.</li><li>8. Store cells in a liquid nitrogen tank.</li></ol>
<b>Incubation Atmosphere</b>	37°C, 5% CO2
<b>Flask Coating</b>	
<b>Freezing Procedure</b>	-78°C
<b>Shipping Conditions</b>	-78°C

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Storage  
Conditions

Store at -150 °C to -196 °C. Do not freeze. Do not thaw. Do not use after the expiration date.

HLA

Sterility

The product is sterile and ready for use. It is not intended for use in PCR. Do not use after the expiration date.