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Datasheet for WM165-1-01-0005

# WM165-1 Viable Cells

## Overview

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|---|---|
| **Description:** | WM165-1 Viable Cells - WM165-1-01-0005 |
| **Item No.:** | WM165-1-01-0005 |
| **Size:** | 5 x 1 million cells |
| **Applications:** | Cellular Assay, ELISA |
| **Origin:** | Human |

## Product Details

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|---|---|
| **Background:** | WM165 is a metastatic human melanoma cell line that displays fibroblastic morphology. This cell line was derived from the same patient as the cell lines WM115, WM239A, and WM266-4. WM115 cell line originated from the primary tumor, and WM266-4, WM165-1 and WM239A were from individual lymph-node metastases. This cell line expresses mutant BRAF (V600D), PTEN loss of function including hemizygous deletion, and wild type N-RAS, c-KIT, and CDK4. WM165 cells produce xenograft tumors when injected into immunocompromised mice. |
| **Synonyms:** | Melanoma, patient derived tumor, tumor models, skin cancer, xenograft |
| **Species of Origin:** | Human |

## Target Details

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| **Purity/Specificity:** | Cells are sterile, validated by short tandem repeat profiling, and are tested as negative for mycoplasma. It is recommended that cell lines are tested for mycoplasma contamination and short tandem repeat (STR) profiling every 10 passages or each time a frozen seed stock is made. See cell culture protocol for additional details. |
| **Relevant Links:** | • Cell Line EULA<br>• Melanoma Cell Culture Protocol |

## Application Details

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| **Suggested Applications:** | Cellular Assay, ELISA (Based on references) |

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| **Application Note:** | The key applications of these cell lines include genetic studies, xenograft production, drug testing, and drug target discovery. These cell line models can be used in various biological assays, and for identifying critical target genes, and cell signaling pathways. |
| **Assay Dilutions:** | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below. |

## Cell Line Data

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|---|---|
| **Cell Line:** | Human Melanoma |
| **Product Type:** | Viable Cells |
| **Morphology:** | fibroblastic |
| **Cell Viability:** | Yes |
| **Stage:** | Metastasis |
| **BRAF:** | V600D |
| **CDK4:** | WT |
| **C-Kit:** | WT |
| **N-RAS:** | WT |
| **PTEN:** | Hemizygous Deletion |
| **Paired:** | Yes |
| **Medium:** | Tumor Specialized Media with 2% HI-FBS |
| **Sub-culture:** | Cells should be maintained between 30 – 95% confluence in tumor specialized medium with 2% FBS; split cultures 1:4 every 1 week using 0.25% trypsin/EDTA. |
| **Incubation:** | 36°C with 5% CO2 |

## Formulation

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| **Physical State:** | Frozen Cell Suspension |
| **Concentration:** | 1.0 million cells/mL Count By Hemocytometer |
| **Buffer:** | None |
| **Preservative:** | None |
| **Stabilizer:** | None |

## Shipping & Handling

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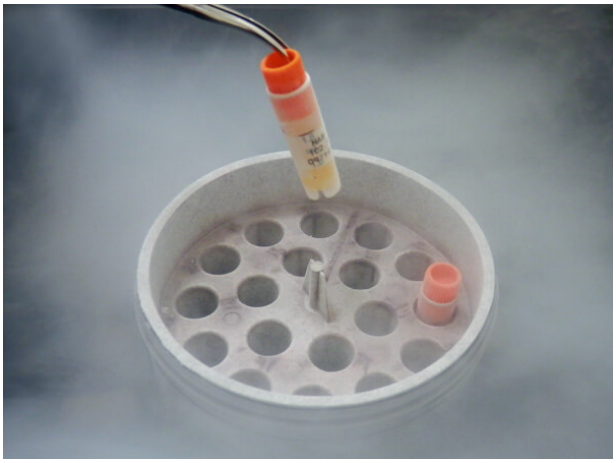
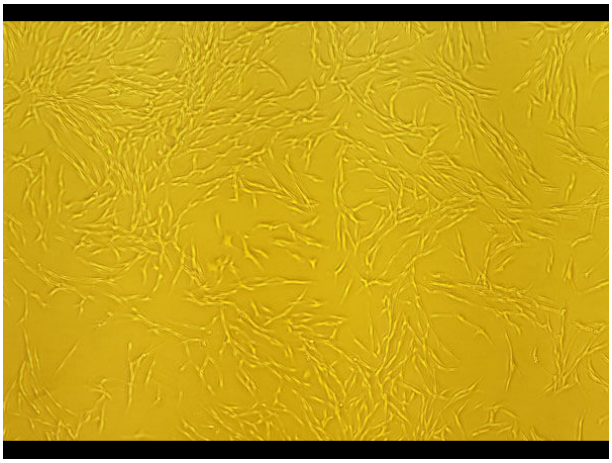
|---|---|
| **Shipping Condition:** | Dry Ice |
| **Storage Condition:** | Cells are frozen with 90% FBS/10% DMSO solution at about 5x10^6 cells/ml. Store vial in liquid nitrogen upon arrival. |
| **Expiration:** | Expiration date is two (2) years from date of receipt. |

## Images



**Flask**
Human melanoma tumor cells with known gene mutations, disease stage, STR, and RPPA profiling



**Viable cell growth**
Established WM165-1 viable cell growth in culture using appropriate Tumor Specialized Media with 2%FBS.

## References


- Koroknai V et al. Cytokine and Chemokine Receptor Patterns of Human Malignant Melanoma Cell Lines. *Int J Mol Sci.* (2022)
- Castro-Perez E et al. Melanoma Progression Inhibits Pluripotency and Differentiation of Melanoma-Derived iPSCs Produces Cells with Neural-like Mixed Dysplastic Phenotype. *Stem Cell Reports.* (2019)

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## Disclaimer

No test method can provide total assurance that the hepatitis B virus, hepatitis C virus, human immunodeficiency virus, or any other infectious agents are absent. Thus, all blood products, including purified proteins derived from human blood sources, should be handled at Biosafety Level 2 as recommended by the CDC\NIH manual entitled Biosafety in Microbiological and Biomedical Laboratories for potentially infectious human serum, blood specimens or proteins derived from same. Source material for the human blood product supplied to your facility has been tested for the detection of HIV antibody, Hepatitis B surface antigen, antibody to Hepatitis C, HIV 1 antigen(s), antibody to HTLV - I/II, and syphilis by FDA guidelines. All units were found to be non-reactive/negative for these tests. All human blood source material is collected in FDA licensed centers and is tested with FDA approved test kits.

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