Designation: **WT51**

Synonym(s): WT-51; WT 51; WT51-B-LCL (DR4); GM03103; GM3103; GM03103A

CLS order number: Cryovial: 302141
Vital: 332141
DNA, genomic: 302141GD

Origin and General Characteristics	
Depositor:	R. Schwartz-Albiez
Organism:	Homo sapiens (human)
Ethnicity:	Caucasian
Age:	Not specified
Gender:	Male
Disease:	none
Tissue:	Peripheral Blood
Morphology:	B lymphocyte
Cell type:	B lymphoblastoid, immortalized using EBV
Growth Properties:	Suspension
Description:	EBV-transformed B-lymphoblastoid cell line, derived from a male person, age unspecified. Homozygous cell line for HLA A:9;,B:14;DR:4; and DP:2. Consanguineous parents. WT51 was part of the 10th International Histocompatibility Workshop (10IHW) cell line panel. Submitted by Dr.M.Trucco, HLA-Laboratory, Pittsburgh University Cancer Institute, USA.
Cellosaurus ID:	CVLC-E887
References:	Palacios R, Martinez-Maza O, Guy K. Monoclonal antibodies against HLA-DR antigens replace T helper cells in activation of B lymphocytes. Proc Natl Acad Sci U S A. 1983 Jun;80(11):3456-60.
Culture Conditions and Handling	
Culture Medium:	RPMI 1640 medium supplemented with L-glutamine and 10% fetal bovine serum.
Subculturing:	Take an aliquot of the cell suspension to determine the cell concentration, then carefully resuspend the cells and dispense into new flasks which contain fresh medium.
Split Ratio:	Inoculate the fresh medium with $5x10^5$ cells/ml
Fluid Renewal:	1 to 2 times weekly
Doubling time:	n.d.
Freeze Medium:	CM-1 (CLS order number 800150, 50ml)
Freezing recovery:	Medium
Sterility:	Mycoplasma specific PCR: negative; Mycoplasma specific PlasmoTest: negative.
Biosafety Level:	2 WT51 was tested positive for EBV. According to the German Law for the Protection against Infections (Infektionsschutzgesetz IfSG), this cell line falls under Risk group L2, and can only be distributed to customers holding a valid permit of the respective authority (IfSG §44 and 45)
Safety precautions:	If the cryovial is planned to be stored in liquid nitrogen and to be thawed in the future, special safety precautions should be followed: Protective gloves and clothing should be used and a facemask or safety goggles must be worn when transferring frozen samples into or removing from the liquid nitrogen tank. The removal of a cryovial from liquid nitrogen may result in the explosion of the frozen vial creating flying fragments. Caputo, J.L. Biosafety procedures in cell culture. J. Tissue Cult. Methods 11:223-227, 1988. ATCC Quality Control Methods for Cell Lines, 2nd edition, 1992.
Special Features of the Cell Line	

Viruses:	Free of human pathogenic viruses SV40, JC/BK, HBV, HCV, and HIV. Contains EBV.	
Surface antigens:	$CD19^+$	
Karyotype:	46 ; X,Y	
HLA-typing: (IPD-IMGT/HLA #11574*:	Class I HLA-A: A*23:01:01:01 HLA-B: B*14:01:01 HLA-C: C*08:02:01:02	Class II HLA-DP DPA1*01:03 DPB1*02:01:02/02:01:19 HLA-DQ DQA1*03:01 DQB1*03:02:01 HLA-DR DRA*01:01 DRB1*04:01:01 DRB4*01:01
DNA Profile (STR):	Amelogenin: X,Y CSF1PO: 10 D13S317: 8,12 D16S539: 11,12 D5S818: 11,13 D7S820: 8,11 THO1: 8,9.3 TPOX: 8,11	vWA: 17,19 D3S1358: 15 D21S11: 30.2,32.2 D18S51: 12,14 Penta E: 7,13 Penta D: 13 D8S1179: 11,12 FGA: 24,25
Applications:	Functional analysis and genotyping of HLA Class II molecules. Analysis of B cell surface antigens, testing of cytotoxic drugs, mutational analysis, analysis of apoptotic mechanisms	

Certificate of Analysis:	The Certificate of Analysis for each batch can be requested by e-mail at service@clsgmbh.de.

Recommendations for handling of cells growing in suspension following delivery	
Cryopreserved cells	The cells come deep-frozen shipped on dry ice. Please make sure that the vial is still frozen. If immediate culturing is not intended, the cryovial(s) must be stored below -150°C after arrival. If immediate culturing is intended, please follow these instructions: Quickly thaw by rapid agitation in a 37°C water bath within 40-60 seconds. The water bath should have clean water containing an antimicrobial agent. As soon as the sample has thawed, remove the cryovial from the water bath. Note: A small ice clump should still remain and the vial should still be cold. From now on, all operations should be carried out under aseptic conditions. Transfer the cryovial to a sterile flow cabinet and wipe with 70% alcohol. Carefully open the vial and transfer the cell suspension into a 15 ml centrifuge tube containing 8 ml of culture medium (room temperature). Resuspend the cells carefully. Centrifuge at 300xg for 3 min and discard the supernatant. The centrifugation step may be omitted, but in this case the remains of the freeze medium have to be removed 24 hours later. Resuspend the cells carefully in 10ml fresh cell culture medium and transfer them into one T25 cell culture flask. All further steps are described in the Subculture section.

Warranty:	CLS warrants for a high cell viability and culture performance only if the product(s) is (are) stored and cultured according to the information described above. Using cell culture media and supplements other than the ones recommended in this product information may result in satisfactory proliferation and viabilities. CLS, however, does not warrant for cell recovery, proliferation and function if differing formulations are employed.
Disclaimer:	The customer shall not be entitled to employ this product for purposes other than research. Commercial utilization shall not be permitted; in particular, the cell line, its components or materials made therefrom shall not be sold or transferred to any third party. In addition, the term ‘Commercial use’ shall mean any activity by a party for consideration and may include, but is not limited to, use of the product or its components in manufacturing, for providing services, e.g. fee for service testing, in quality control or assurance processes within the manufacturing of products for sale, for therapeutic, diagnostic or prophylactic purposes, or for resale.