PRODUCT DATASHEET

Immortalised human melanocyte [PIG1] cell line Cat. #154099

Contributor Information

Name Pranab K Das
Institute Amsterdam University

Tool Details

Tool Name: Immortalised Human Melanocyte [PIG1] Cell Line
Tool type: Cell lines
Tool sub-type: Continuous
Organism: Human
Tissue: Neonatal foreskin
Gender: Male
Cancer type: Melanoma
Disease: Pigmentary disorders
Model: Immortalised Line
Conditional: No
Description: Immortalized human melanocyte cell line established by introduction of retroviral construct carrying a geneticin resistance gene and containing HPV16E6E7 open reading frames
Research area: Cancer; Pigmentary disorders
Production details: Melanocyte cultures were established from neonatal foreskin using standard methods. Melanocytes from passage 12 were transfected with HPV16 genes E6 and E7 using the retroviral construct LXCN16E6E7. The E6E7 genes are under the control of the MMLV promoter-enhancer sequence. In addition the vector contained a geneticin resistance gene. The retroviral particles were produced by the packaging cell line PA317. The critical concentration of geneticin for transformed selection was 1mg/ml.
Cellosaurus ID: CVCL_S410

For Research Use Only

Application Details

Application: Melanocyte biology research, *in vitro* studies on the etiology of pigmentary disorders and melanoma

Handling

Format: Frozen
Growth medium: Ham's F10 medium supplemented with 10ng/ml tetradecanoly phorbol 13-acetate (TPA), 0.1mM 3-isobutyl-methyl-xanthine (IBMX), 1% vol/vol Ultroser G, 2mM glutamine, 100 IU/ml penicillin and 100 ug/ml streptomycin
Volume: 1 ml
Storage conditions: Liquid Nitrogen
Shipping conditions: Dry ice
Characterisation tests: E6E7 expression, proliferation rate, anchorage independent growth, expression of melanoma markers, melanin synthesis, and ploidy
Subculture routine: Cells were routinely passaged 1:4 at confluency
Cultured in antibiotics?: Penicillin / Streptomycin
Mycoplasma free: Yes
Biosafety level: 1

References

Ivanova et al. 2008. In Vitro Cell Dev Biol Anim. 44(8-9):385-95. PMID: 18594937

Le Poole et al. 1997. In Vitro Cell Dev Biol Anim. 33(1):42-9. PMID: 9028834