



Cell line:	SH-SY5Y
DSMZ no.:	ACC 209
Species:	human (<i>Homo sapiens</i>)
Cell type:	neuroblastoma
Origin:	clonal subline of the neuroepithelioma cell line SK-N-SH that had been established in 1970 from the bone marrow biopsy of a 4-year-old girl with metastatic neuroblastoma
Reference(s):	14388 , 14638 , 14901
Biosafety level:	1
Permissions and restrictions:	A
DSMZ Cell Culture Data:	
Morphology:	epithelial-/neuronal-like elongated cells growing as monolayer and in cell clusters; cells do not grow to complete confluency; image
Medium:	80-85% Dulbecco's MEM + 15-20% h.i. FBS
Subculture:	split culture 1-2 times a week using trypsin/EDTA; seed out at ca. 1×10^6 cells/80 cm ² ; selection of neuronal-like cells may be favored by reduction of glutamine (1 mM), passaging of semi- or half-confluent cultures; short-time trypsin exposure preferentially detaches the epithelial-like cells
Incubation:	at 37 °C with 10% CO ₂
Doubling time:	>55 hours
Harvest:	cell harvest of about 15×10^6 cells/175 cm ²
Storage:	frozen with 70% medium, 20% FBS, 10% DMSO
DSMZ Scientific Data:	
Mycoplasma:	negative in DAPI, microbiological culture, RNA hybridization, PCR assays
Immunology:	cytokeratin -, cytokeratin-7 -, cytokeratin-8 -, cytokeratin-17 -, cytokeratin-18 -, desmin -, endothel -, GFAP -, neurofilament +, vimentin +
Fingerprint:	multiplex PCR of minisatellite markers revealed a unique DNA profile
Species:	confirmed as human with IEF of AST, MDH
Cytogenetics:	human near-diploid karyotype with 1.8% polyploidy - 46/47(42-48)<2n>X/XX, +7, ins(1)(q32q11q43), add(9)(q34), der(22)t(?17;22)(q22;q13) - resembles published karyotype

Viruses: ELISA: reverse transcriptase negative; PCR: EBV -, HBV -, HCV -, HHV-8 -, HIV -, HTLV-I/II -, MLV -, SMRV -

Supplied as:	Delivery form	Prices
	Frozen culture	360,- €
	Growing culture (please inquire for exact delivery time)	720,- €
	DNA isolated from cell line (25 µg)	440,- €
	DNA isolated from cell line (5 µg)	100,- €

[see price list](#)

[Print data sheet](#)
