

人骨肉瘤细胞 U-2 OS 说明书

目录号: SCSP-5030

细胞名称: U-2 OS

细胞描述: U-2 OS 细胞来源于 15 岁白人女性, U-2 OS 细胞与 WI-38 共培养或 CF 检测 SV40, RSV 或腺病毒时未检测到病毒。1972 年发现支原体污染并去除。

物种: 人, 女性, 15 岁

组织: 骨

细胞来源: 2017 年引进

生物安全等级: BSL-1

完全培养液配方: 见下方备注

批次/冻存日期: 详见 冻存管/培养瓶 标识

参考传代比例: 1:3

参考传代周期: 4-5 天

参考换液频率: 每周 2 次

冻存液配方: 完全培养液 95%, DMSO 5%

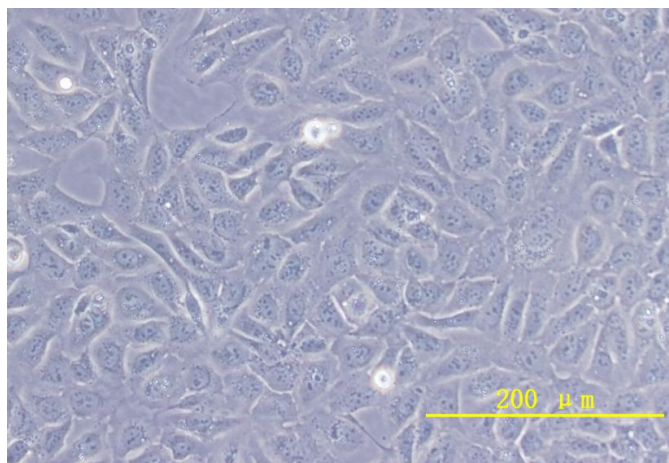
细胞形态: 上皮样, 贴壁生长

支原体检测结果: 阴性

STR 鉴定结果:

Amelogenin: X
CSF1PO: 13
D13S317: 13
D16S539: 11,12
D5S818: 11
D7S820: 11,12
THO1: 6,9.3
TPOX: 11,12
vWA: 14,18

U-2 OS 细胞照片



参考文献:

Heldin CH, et al. A human osteosarcoma cell line secretes a growth factor structurally related to a homodimer of PDGF A-chains. *Nature* 319: 511-514, 1986. PubMed: [3456080](#)

Ponten J, Saksela E. Two established in vitro cell lines from human mesenchymal tumours. *Int. J. Cancer* 2: 434-447, 1967. PubMed: [6081590](#)

Raile K, et al. Human osteosarcoma (U-2 OS) cells express both insulin-like growth factor-I (IGF-I) receptors and insulin-like growth factor-II/mannose-6- phosphate (IGF-II/M6P) receptors and synthesize IGF-II: autocrine growth stimulation by IGF-II via the IGF-I receptor. *J. Cell. Physiol.* 159 : 531-541 , 1994. PubMed: [8188767](#)

Landers JE, et al. Translational enhancement of mdm2 oncogene expression in human tumor cells containing a stabilized wild-type p53 protein. *Cancer Res.* 57: 3562-3568, 1997. PubMed: [9270029](#)

Moradpour D, et al. Characterization of cell lines allowing tightly regulated expression of hepatitis C virus core protein. *Virology* 222: 51-63, 1996. PubMed: [8806487](#)

Ponten J, Saksela E. Two established in vitro cell lines from human mesenchymal tumours. *Int. J. Cancer* 2: 434-447, 1967. PubMed: 6081590

备注:

1. 人骨肉瘤细胞 U-2 OS 完全培养液配方 (100 ml):

McCoy's 5a Medium (Invitrogen, 12330-031)	90 ml
FBS (Gibco)	10 ml

2. 我库冻存时, 每支冻存管约含 7×10^5 细胞量, 体积为 $500 \mu\text{l}$, 预期存活率 70% , 建议复苏至 1 个 T25 培养瓶中。

中国科学院典型培养物保藏委员会细胞库/干细胞库