MTT test

Nano Silver Solution 1000 ppm diluted to 5 ppm & 50 ppm

Sample Received:20181214

Applicant: SPRING BLESS TECHNOLOGY Co., Ltd. Evaluated By: Industrial Technology Research Institute.

Experimental design

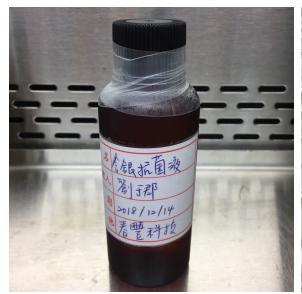
• Cells: CCD966SK-20181207.p20

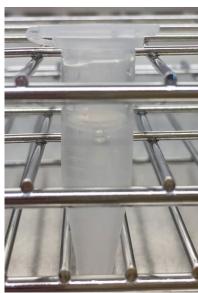
• Cell density: 1.0*10⁴/well -96 well-plate,4wells/sample

• Negative control: Medium (MEM-10%)

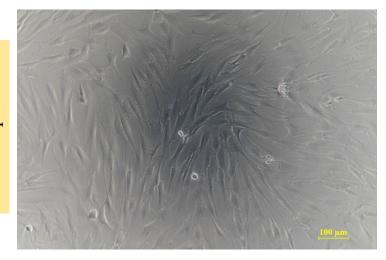
• Positive control : 0.45%Lysol

Sample Name	Sample Condition	Evaluated Item	Date of Testing	Concentrat ion	Remark
Nano Silver Solution 5ppm	Transparent liquid	MTT	2018/12/19	5 ppm	Stock solution conc.=1000ppm
Nano Silver Solution 50ppm	Transparent liquid	MTT	2018/12/19	50 ppm	Stock solution conc.=1000ppm

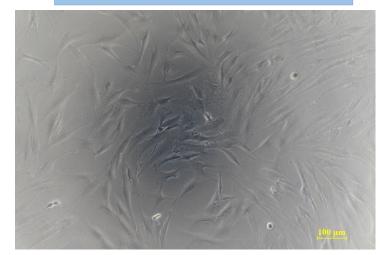




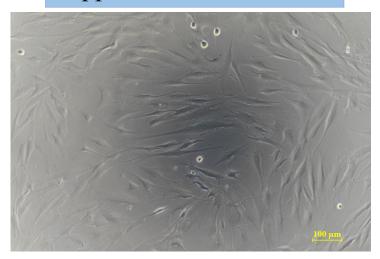
Negative control (M)

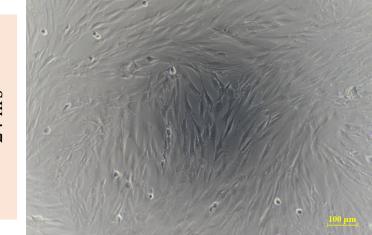


Nano Silver Solution 5ppm

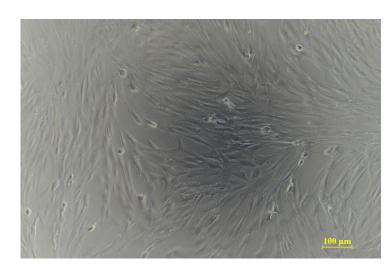


Nano Silver Solution 50ppm





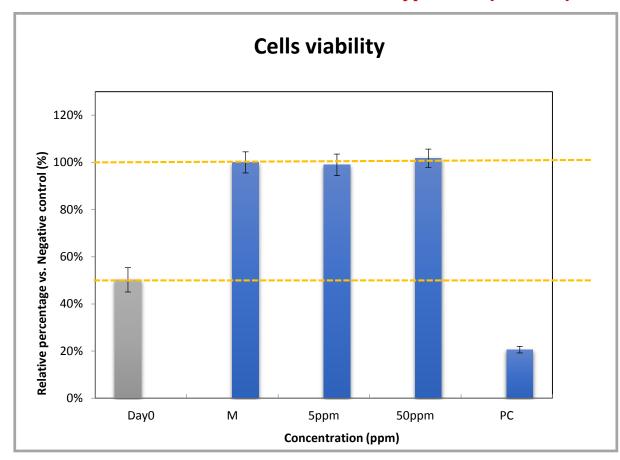


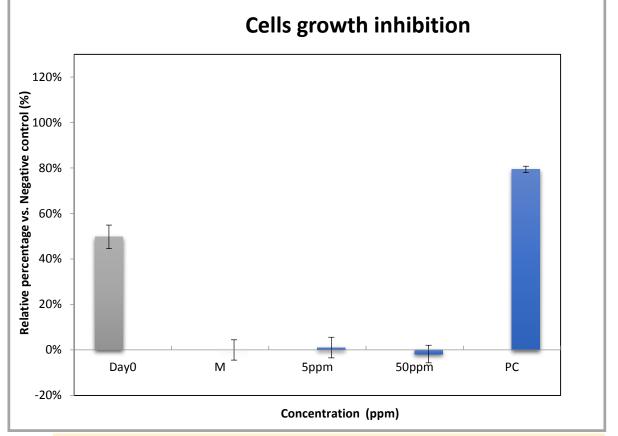


- > Cell morphology of medium and samples(Before and after adding samples)
- ➤ Both cell amount and cell morphology are normal after adding samples of Nano Silver Solution 5 ppm & 50 ppm ∘

	%(mean)	%(se)	1-%(mean)			
Day 0	50.24%	5.16%	49.76%			
NC(M))	100.00%	4.49%	0.00%			
Nano Silver Solution 5ppm	98.95%	4.56%	1.05%			
Nano Silver Solution 50ppm	101.79%	3.86%	-1.79%			
PC	20.59%	1.40%	79.41%			

*When Nano Silver Solution ≤ 50 ppm , no cytotoxicity was found (Non cytotoxicity : Cell viability > 50.24%(Day 0))





When Nano Silver Solution 1000ppm diluted to 5ppm&50ppm, cell growth rate are normal