Neodye DNA Orange

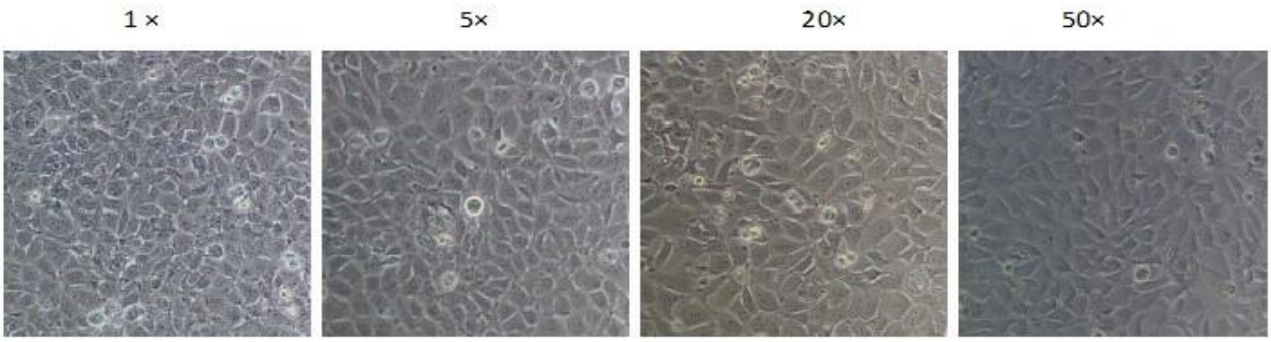
Cellular Toxicity Analysis

Catalogue number
NB-79-0001

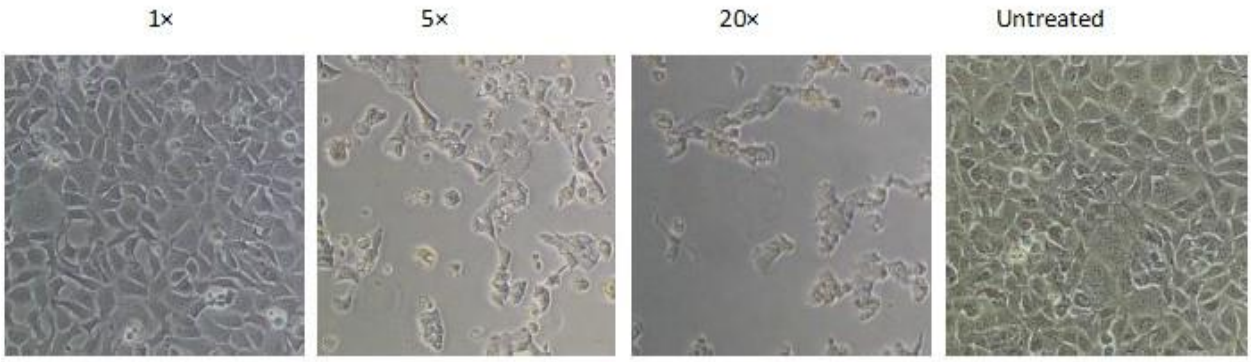
Morphological observation:

HEK 293 cells (24 hours after treatment):

- NeoDye DNA orange (working Solution):

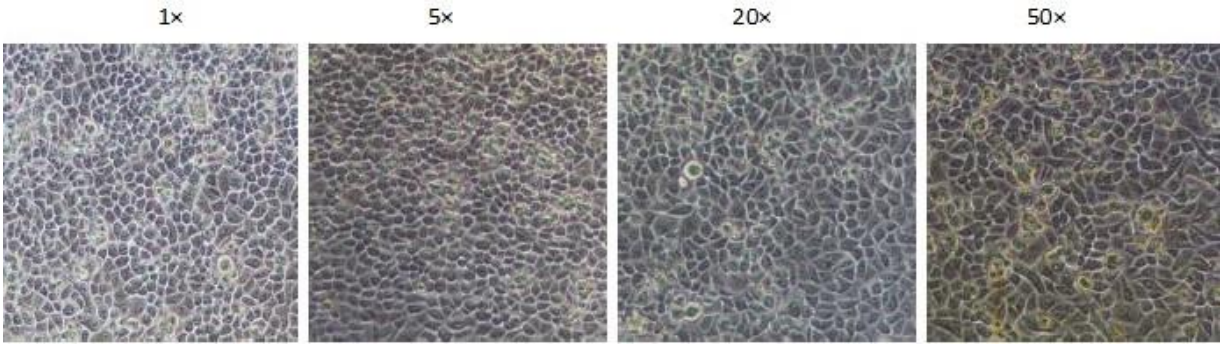


- EB (working Solution) :

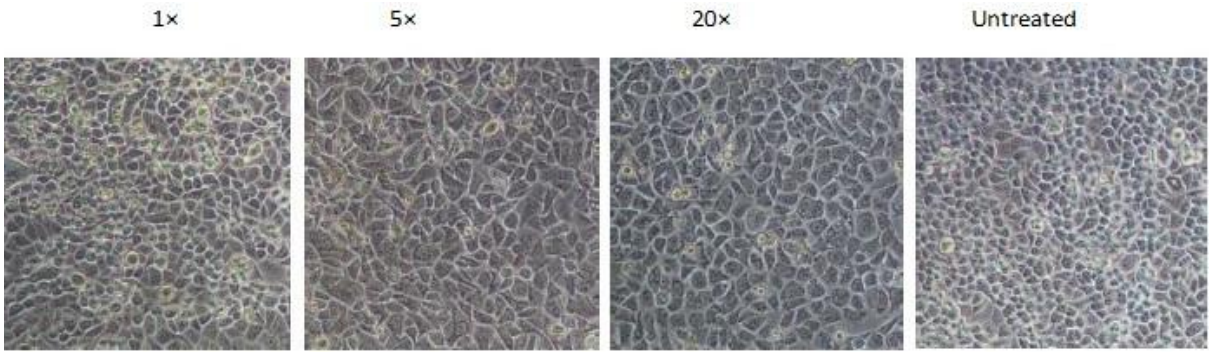


Hela cells (24 hours after treatment):

- NeoDye DNA orange (working Solution):

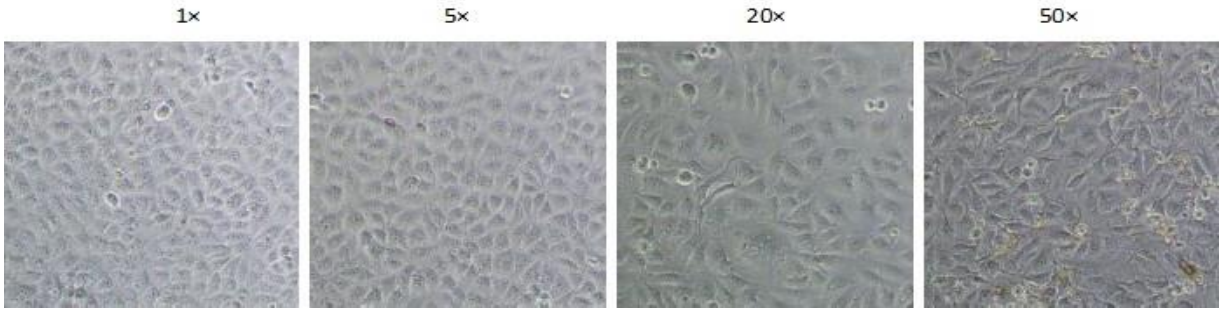


- EB (working solution) :

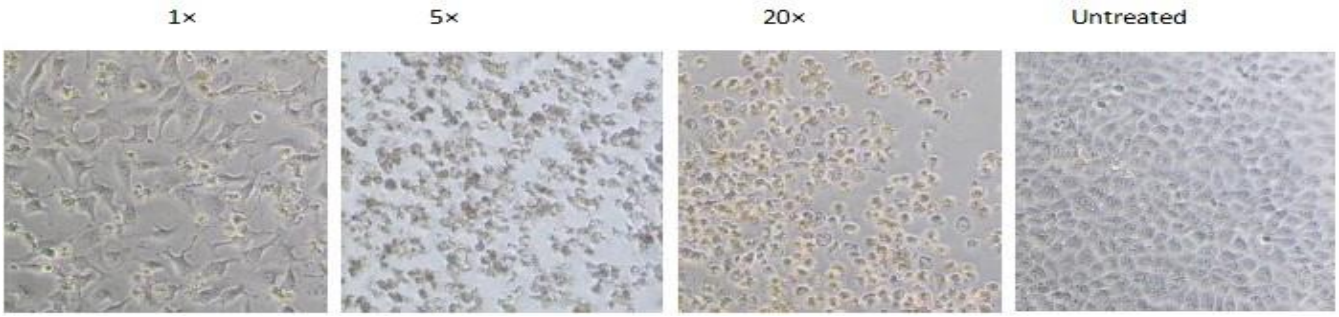


MCF-7 cells (24 hours after treatment):

- NeoDye DNA orange (working Solution):



- EB (working solution) :



Test result:

Table1: Cellular toxicity determination with CCK-8 cell counting kit (24 hours after treatment)

	Neo Dye DNA				EB			Untreated
Cells type	1×	5×	20×	50×	1×	5×	20×	
HEK293	1.464	1.504	1.498	1.448	1.123	0.861	0.892	1.146
HELA	2.493	2.401	2.435	2.389	2.192	1.567	1.184	2.626
MCF-7	1.996	1.45	1.572	1.698	1.097	0.803	0.855	2.09

Conclusion

NeoDye DNA has little toxicity to culture cells and has little effect on cell growth and cell morphology, while EB exhibits severe toxicity to culture cells. HEK293 and MCF-7 cells even almost all died after treated with high doses of EB.