



Cell Viability and Cytotoxicity Assay Kit

CCK-8 is a kit for detecting cell viability based on WST-8. The detection principle is that WST-8 can be reduced to water-soluble methoxyl product under the action of electron carrier 1-methoxy (PMS), and the amount of methylate is directly proportional to the number of living cells. CCK-8 solution can be directly added to the cells, and the orange methyl dye generated can be dissolved in the tissue culture medium. The number of cells in the culture medium can be calculated according to the standard curve by detecting the light absorption near 450 nm.

Comparison of different types of cell proliferation and toxicity assays

Method	MTT	XTT	WST-1	CCK-8
Solubility of formazan	Indissolvable	Water soluble	Water soluble	Water soluble
Form	Powder	Liquid	Liquid	Liquid
Usage	Use after dissolution	Fresh prepared	No need to prepare	No need to prepare
Sensitivity	+	++	++	++
Detection speed	+	++	++	+++
Determine wavelength	560-600 nm	420-480 nm	420-480 nm	430-490 nm
Cytotoxicity	+	-	-	--
Stability	+	-	+	++
Repeatability	+	++	+++	+++
Convenience	+	++	++	+++

Product features

High Sensitivity:

Significant difference even when the number of cells is small.

Good Linearity:

When the cells number is over 20,000, the absorbance still keeps good linearity.

Stable Solution,

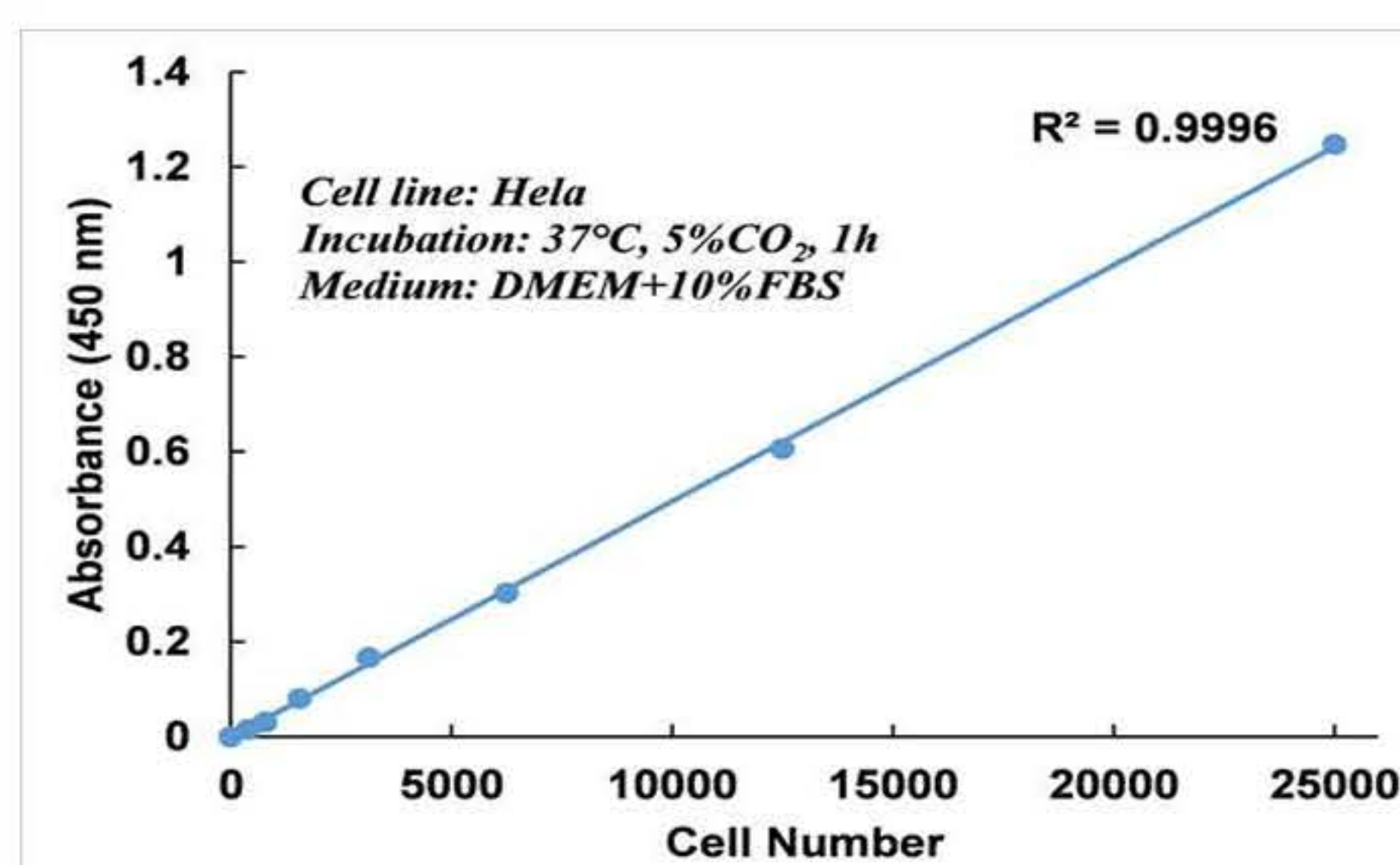
Low Toxicity:

Incubation time can be as long as 24-48 h.

Cat Number	Product Name	Size
E-CK-A362	Enhanced Cell Counting Kit 8 (WST-8 / CCK8)	100tests/500tests/10000tests
E-CK-A341	MTT Assay Kit (Cell Proliferation)	500Assays/1000Assays
EP-CM-L0486	5 mg/mL MTT solution	1mL*5/1mL*10

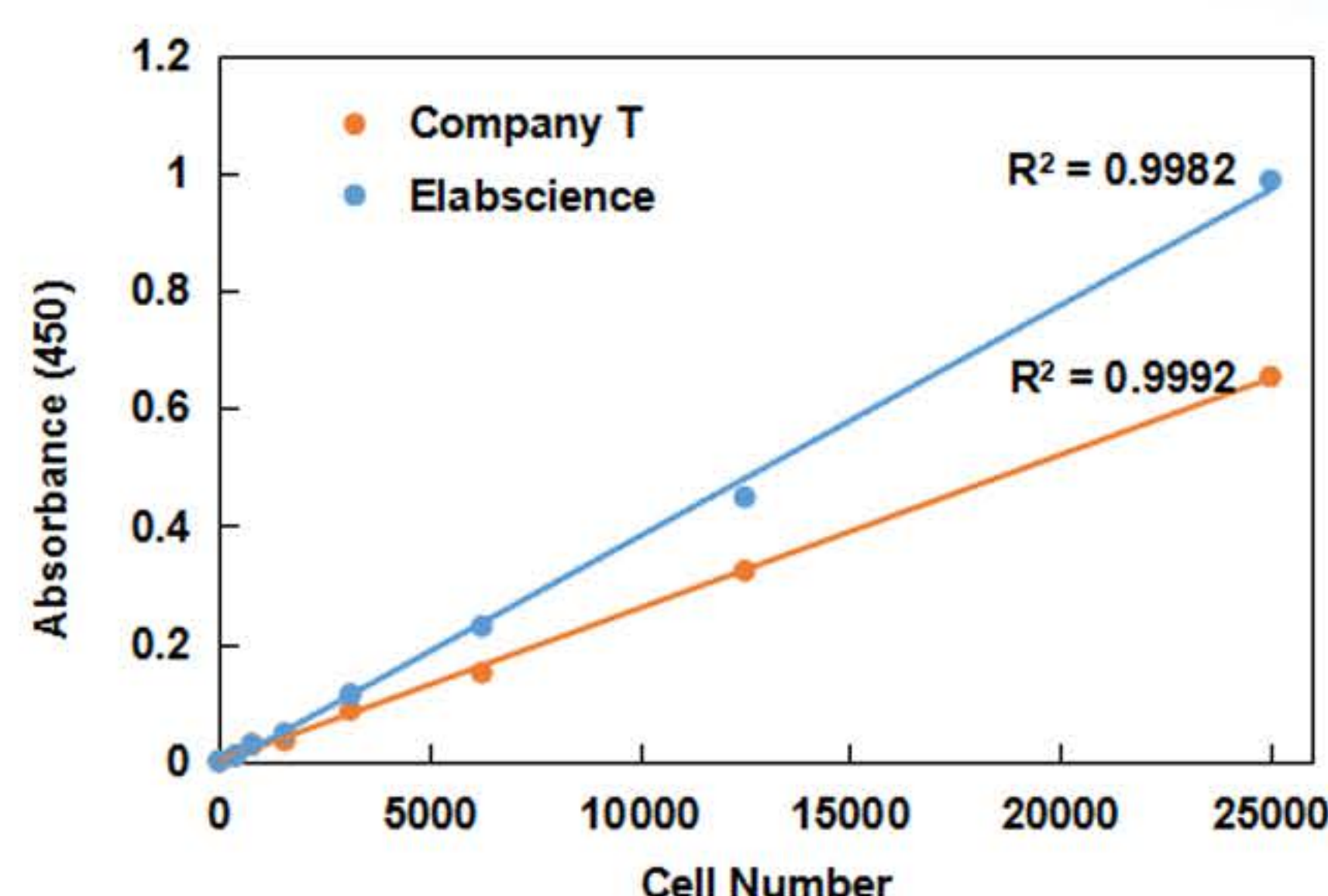
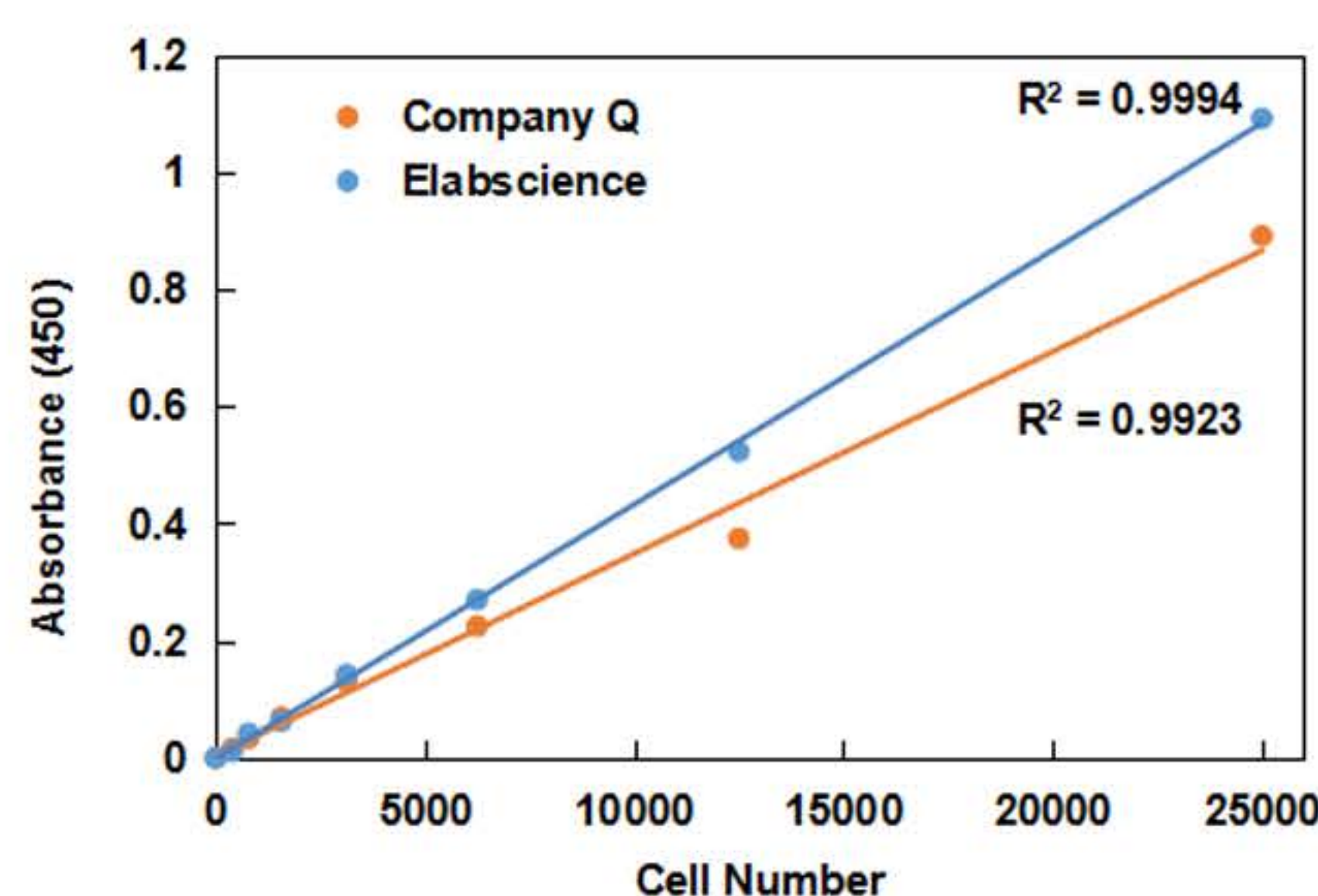
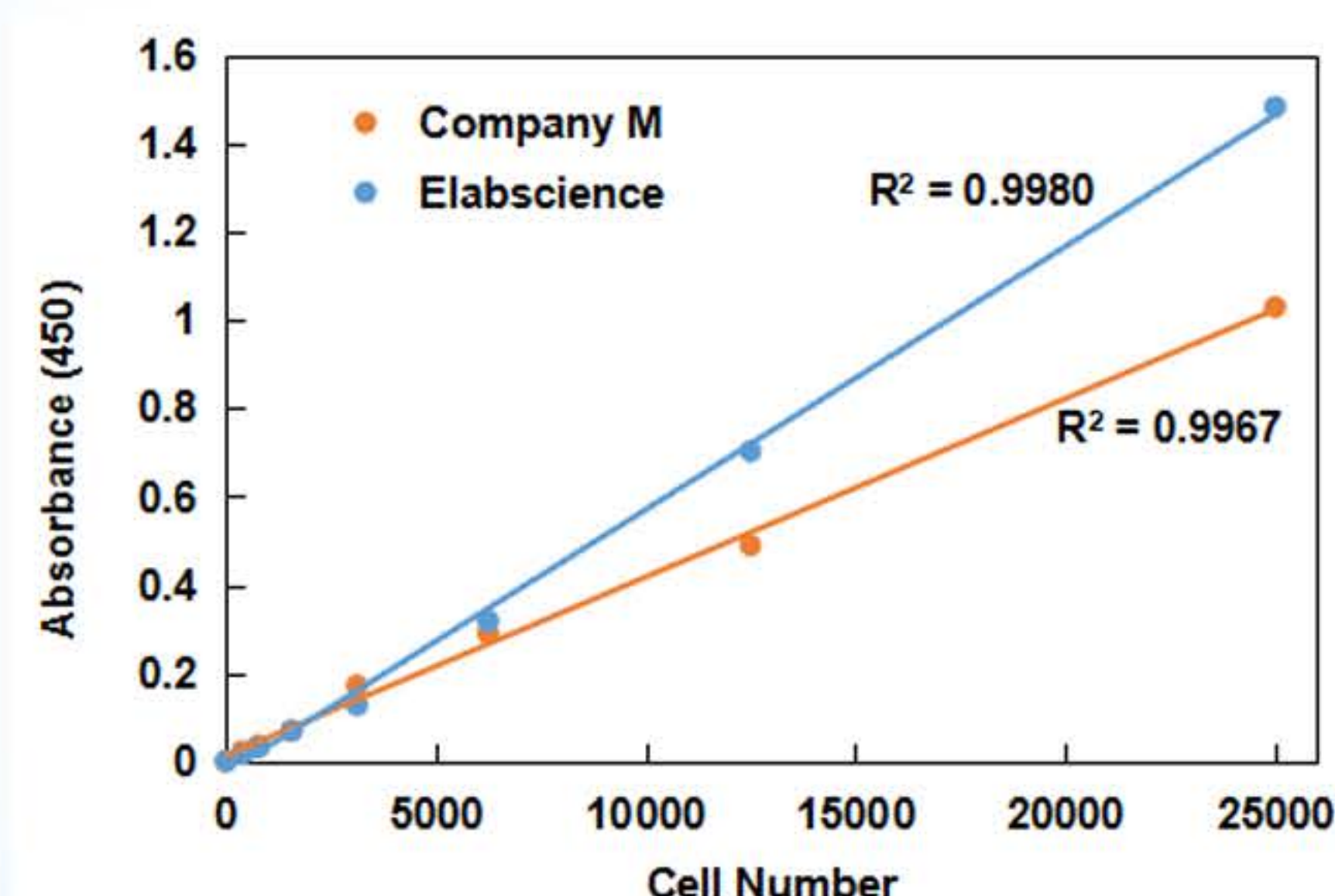
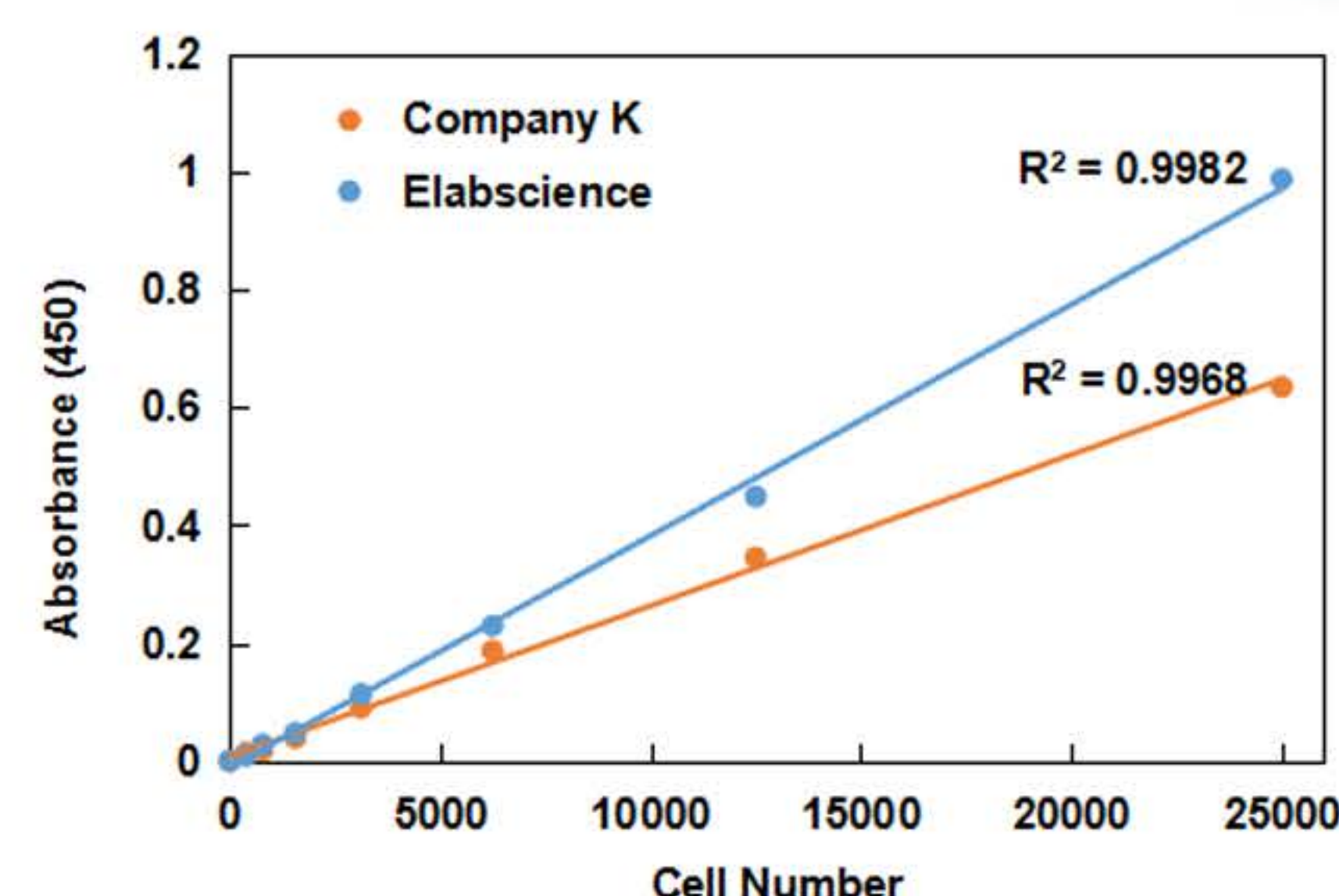
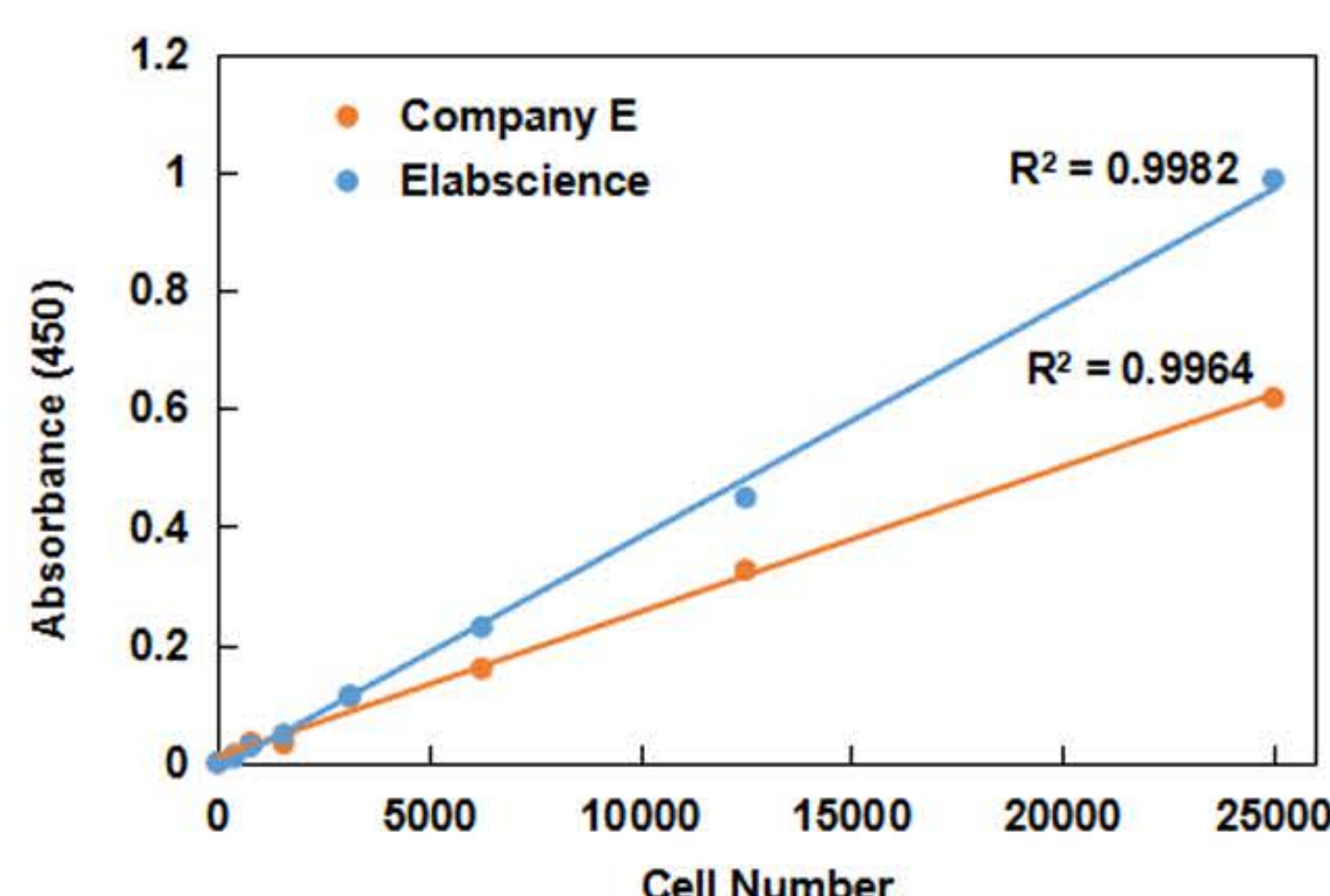
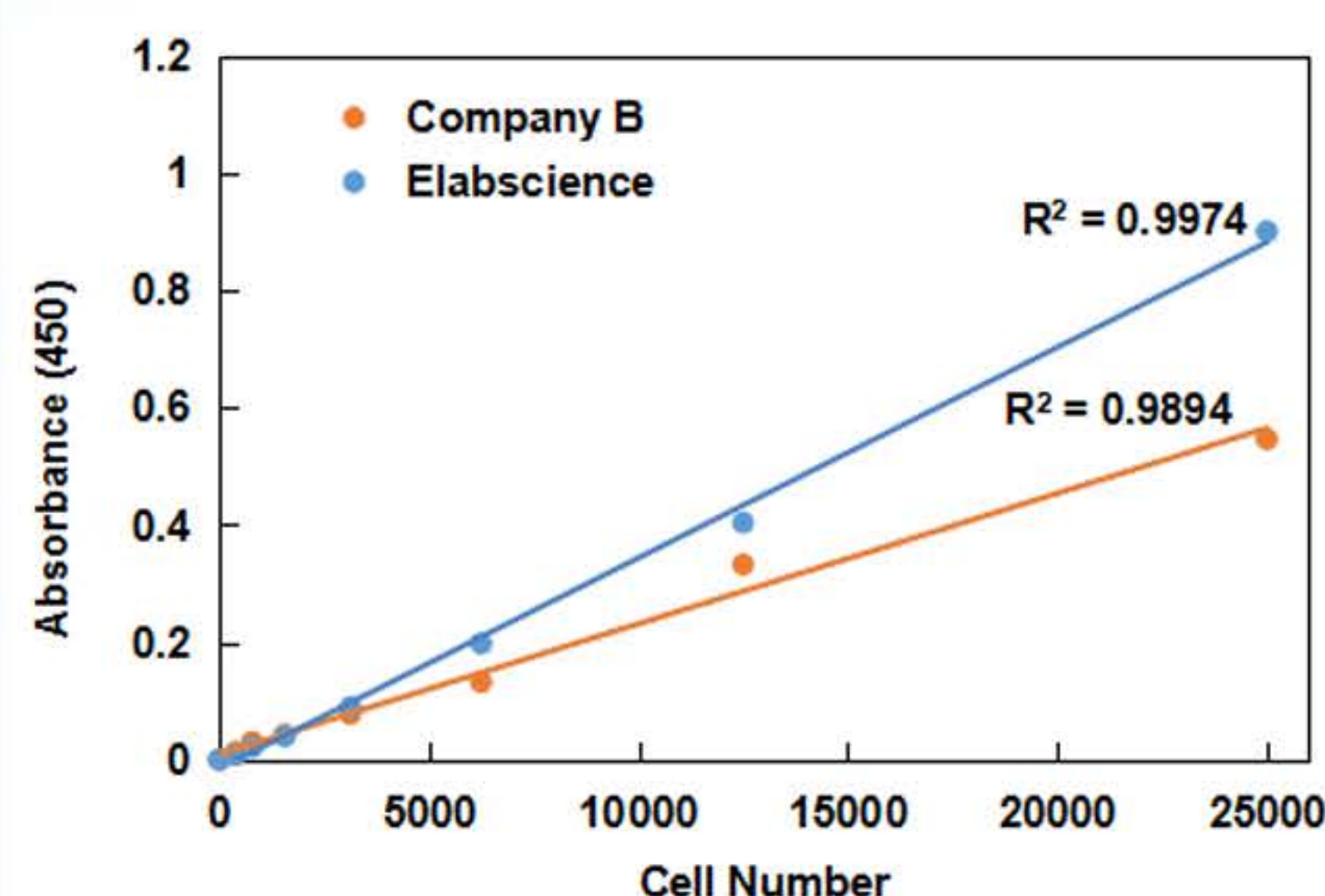
Typical results

Example 1. Performance of Elabscience's CCK-8 Kit



Different amounts of HeLa cells were inoculated in 96-well plates according to 100 μ L of culture medium per well. After the cells were fully attached (1 h), 10 μ L of CCK-8 solution was added to each well. After incubating for 1 h, the absorbance value at 450 nm was measured.

Example 2. Comparison of CCK-8 kits from different companies



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