

**Cell Counting Kit-8 (CCK-8)** allows sensitive colorimetric assays for the determination of cell viability in cell proliferation and cytotoxicity assays. Dojindo's highly water-soluble tetrazolium salt, WST-8, is reduced by dehydrogenase activities in cells to give a yellow-color formazan dye, which is soluble in the tissue culture media. The amount of the formazan dye, generated by the activities of dehydrogenases in cells, is directly proportional to the number of living cells. The detection sensitivity of CCK-8 is higher than the other tetrazolium salts such as MTT, XTT, MTS or WST-1.

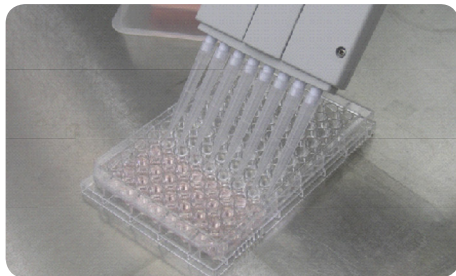
**NO TOXICITY FOR CELL**

## CELL PROLIFERATION / CYTOTOXICITY ASSAY KIT

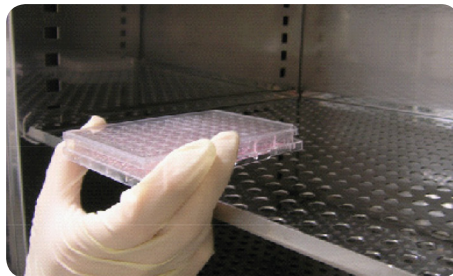
Item	Description	Tests
CK04-05	Cell Counting Kit-8. Cell Proliferation/Cytotoxicity test	500
CK04-11		1000
CK04-13		3000

Promo MT-2.3.0

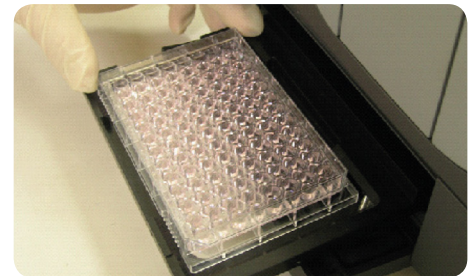
## 3 Simple Steps



**1.**  
Add CCK-8 Solution



**2.**  
Incubate for 1-4 hours



**3.**  
Measure O.D. at 450 nm

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**24h**



Shipping Fees  
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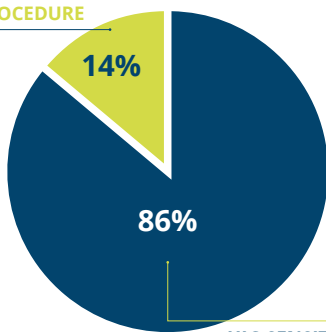
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Minimum Order  
**NO**

## SEI SODDISFATTO DELLA TUA SENSIBILITÀ AL TEST? OTTIENI UNA MAGGIORE SENSIBILITÀ CON **CELL COUNTING KIT-8 (CCK-8).**

EASY PROCEDURE



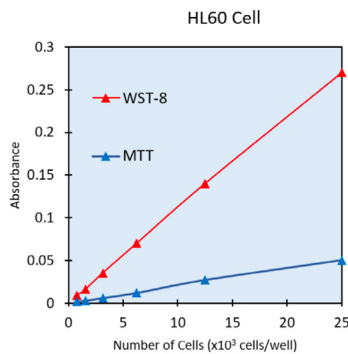
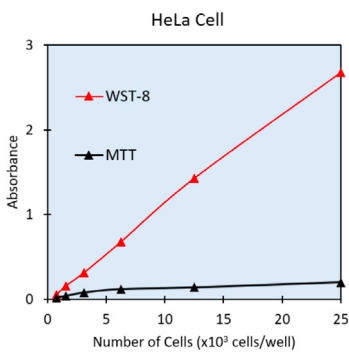
HIG SENSIBILITY

### DIFFERENCES BETWEEN CCK-8 AND MTT

	CCK-8	MTT
<b>Sensitivity</b>	<b>CCK-8 &gt; MTT</b>	
Assay Procedure	<b>15 minutes</b>	Thawing Process + 40 min.
Cell Lysis Process	<b>Not Required</b>	Required
Stability (@ 4°C)	<b>1 year</b>	1 week

**86% of MTT users are interested in CCK-8 because of its sensitivity.\***

\*Based on in-house customer survey.



#### Medium:

MEM, 10% FCS, L-glutamate (HeLa)  
RPMI 1640, 10% FCS, L-glutamate (HL60)

#### Incubation:

37°C, 5% CO<sub>2</sub>, 2 hours (HeLa)  
37°C, 5% CO<sub>2</sub>, 2 hours (HL60)

#### Detection:

CCK-8 450 nm, MTT: 570 nm

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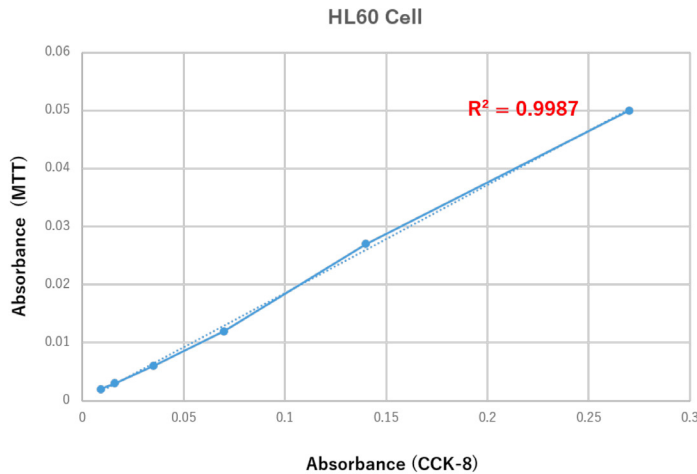
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## CORRELAZIONE TRA CCK-8 E MTT

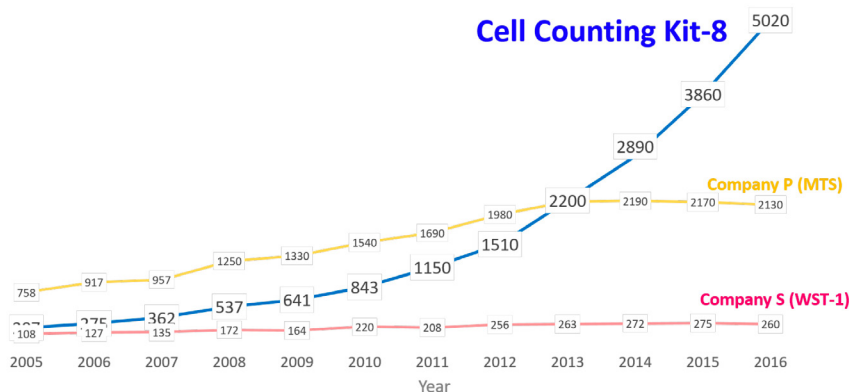


**Medium:**  
RPMI 1640, 10% FCS, L-glutamate

**Incubation:**  
37°C, 5% CO<sub>2</sub>, 2 hours

**Detection:**  
CCK-8 450 nm, MTT: 570 nm

## THE NUMBER OF ANNUAL PUBLICATION



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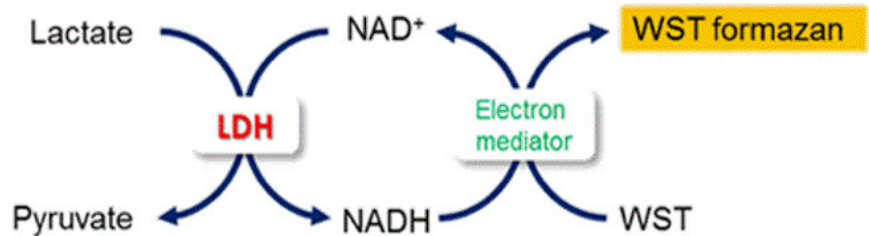
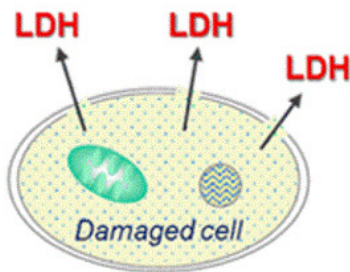


Minimum Order  
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# CYTOTOXICITY LDH ASSAY KIT-WST

## Detection Principle

Lactate dehydrogenase(LDH) is an enzyme that presents in almost cell types and it catalyzes the oxidation of lactate to pyruvate in the presence of co-enzyme NAD<sup>+</sup>. Once cells are impaired by stress, injuries, chemicals, or intercellular signals, LDH is rapidly released from the cell membrane. Thus, the measurement of the amount of released LDH from cells is one of the major methods to assess the cell death. Since Dojindo's Cytotoxicity LDH Assay Kit-WST neither reflects the activity of living cells nor is harmful to cells, it allows the assay to perform in wells containing both viable and damaged cells.



## CYTOTOXICITY LDH ASSAY KIT-WST

Item	Description	Tests
CK12-01	Cytotoxicity LDH Assay Kit-WST	100
CK12-05	Cytotoxicity LDH Assay Kit-WST	500
CK12-20	Cytotoxicity LDH Assay Kit-WST	2000

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Shipping  
Time  
**24h**



Shipping  
Fees  
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Shipping Fees for temperature  
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Minimum  
Order  
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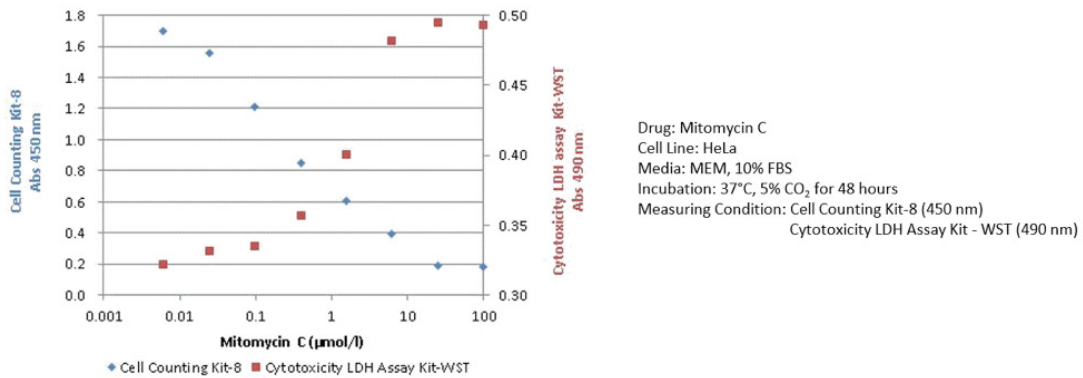
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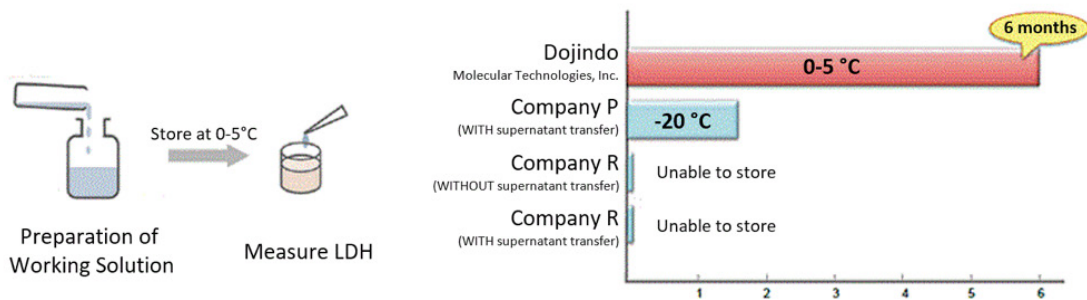
## Correlation between Cell Counting Kit - 8 & Assay Kit-WST

To obtain an accurate result in cytotoxicity assay, the samples are measured by different principles. Cell Counting Kit-8 (Product Code: CK04) measure NADH in living cells and LDH assay measure released LDH from dead cells. According to these results, the living cells decreased and dead cells increased with higher concentration of toxicant.



## Stable Working Solution

Working Solution is stable for 6 months under refrigerated conditions. Therefore, after the preparation, Working Solution can be used as a ready-to-use solution at any time during this period.



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