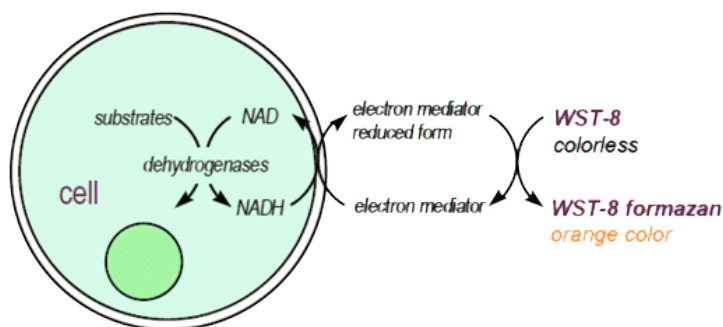


More than cell proliferation and cytotoxicity

Getting more research benefits from innovative Cell Counting Kit-8 with less cost!

Abbkine Cell counting kit-8 is a colorimetric assay kit for cell number counting, cell proliferation and cytotoxicity assays. By adding CCK-8 directly to the cell media, CCK-8 kit shows fast, high-throughput screening without a solubilization process, obtaining highly reproducible and accurate results.

Cell Counting Kit-8 (CCK-8) uses the reagent WST-8 as its substrate. The highly water-soluble tetrazolium salt, WST-8 is cleaved to a soluble formazan by cellular dehydrogenases. This bioreduction is accomplished by NADPH or NADH produced by dehydrogenase enzymes in metabolically active cells. The amount of formazan dye product directly correlates to the number of metabolically active cells in the culture.



The results obtained by using the kit show higher sensitivity than methods that use tetrazolium compounds such as MTT, MTS, XTT or WST-1, with lesser time and toxicity.

- ✓ More convenient with less than 15 mins in 3 steps
- ✓ More sensitive than MTT, MTS, XTT or WST-1
- ✓ Less toxic, compatible for other downstream assays
- ✓ High quality product with affordable price

Ordering information

Product Name	Cat. No.	Size
Cell Counting Kit-8 (CCK-8)	KTC011001	100/500/2000/10000 tests



Features & benefits

- One-bottle, ready-to-use solution, convenient and fast.
- Requires only three assay steps in 15 minutes.
- No organic solvents or isotopes required.
- No harvesting, no washing and no solubilization steps.
- More sensitive than MTT, XTT, MTS or WST-1.
- Low toxicity, the same cells can be used for other cell assays.
- Bulk size with special price are available upon request.

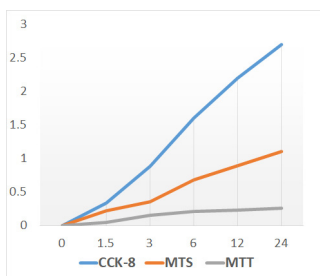
More convenient with less than 15 mins

The ready-to-use WST-8 solution does not require additional steps such as thawing before use, and no extra step for MTT compound dissolution. CCK-8 requires fewer steps than procedures that use the tetrazolium compound, such as MTT and MTS.

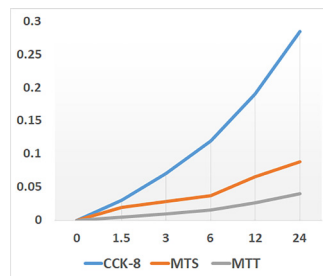
Method	Preparation	Procedure		
CCK-8	-	Add reagent	-	Measure O.D.
MTS	Thaw reagent	Add reagent	-	Measure O.D.
MTT	Thaw reagent	Add reagent	Dissolve MTT	Measure O.D.

More sensitive than MTT, MTS and WST-1

Cell proliferation or cytotoxicity assay results obtained by using CCK-8 show higher sensitivity than methods that use tetrazolium compounds such as MTT, MTS, or WST-1.



HeLa Cell: MEM, 10% FCS, L-Glu



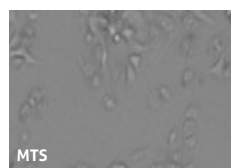
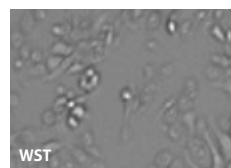
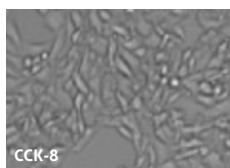
HL60 Cell: RPMI 1640, 10% FCS, L-Glu

Incubation: 37 °C, 5% CO₂, 2 hours

Detection: CCK-8 (450 nm), MTS (490 nm), MTT (570 nm)

Less toxic and easy following other cell assays

Only with CCK-8 (WST-8), continuous cell cultures is possible without killing cells. Below are illustrations observing cytotoxicity after incubation with each reagent.



Ordering information

Product Name	Cat. No.	Size
Cell Counting Kit-8 (CCK-8)	KTC011001	100/500/2000/10000 tests

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Protocol FAQ and tips

- Be careful not to introduce bubbles to the wells, since they interfere with the O.D. reading.
- The incubation time varies by the type and number of cells in the well. A long incubation time (up to 4 hours) or a large number of cells (~10⁵ cells/well) may be necessary.
- If the color or PH of culture media is changed due to long-time culture, please change the culture media when adding CCK-8.
- Conditions or chemicals that affect dehydrogenase activity in viable cells may cause discrepancy between the actual viable cell number and the cell number determined using the CCK-8 assay.
- CCK-8 can be utilized to do cell number counting, cell proliferation and cytotoxicity assay. It makes tiny protocol differences when you apply different assays, and the majority of other operation protocols are the same.
- The recommended maximum number of cells per well for the 96-well plate is 25,000. For 24-well or 6-well plates, please calculate the number accordingly, and adjust the volume of the CCK-8 solution in each well to 10% of the total culture medium volume.

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