



## — Application:

### Drug Screening Assays

High Throughput,  
High Stabilization



### Cell Proliferation Assays

High Water-solubility,  
Colorimetric Method

### Drug Sensitivity Assays

High Sensitivity,  
High Stabilization

### Cell Cytotoxicity Assays

Low Cell-toxicity,  
Colorimetric Method

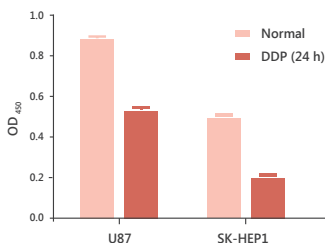
## — Validation:

Cell line: U87, SK-HEP1

Medium: DMEM, 10% FBS

Chemicals: 200  $\mu$ M Cisplatin (DDP)

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



## — Top Publications Citing Use of MCE Products:



For research use only.  
We do not sell to patients.

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# Cell Counting Kit-8

Apply for Free Sample Now!

High Linearity - Excellent Stabilization - Customer Validations



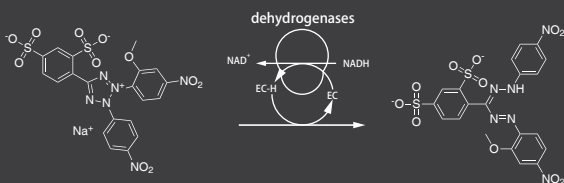
## — Components:

| Cat. No. | HY-K0301-100T | HY-K0301-500T | HY-K0301-3000T |
|----------|---------------|---------------|----------------|
| Size     | 1 mL          | 5 mL          | 5 mL × 6       |
| Price    | EUR 41        | EUR 77        | EUR 269        |

## — General Information:

CCK-8 is a one-bottle solution, ready to use. CCK-8, being nonradioactive, allows sensitive colorimetric assays for the determination of the number of viable cells in cell proliferation and cytotoxicity assays.

WST-8 [2-(2-methoxy-4-nitrophenyl)-3-(4-nitrophenyl)-5-(2,4-disulphophenyl)-2H-tetrazolium, monosodium salt] produces a water-soluble formazan dye upon reduction in the presence of an electron mediator. The amount of the formazan dye generated by dehydrogenases in cells is directly proportional to the number of living cells.



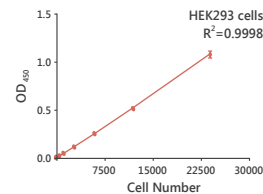
## — High Linearity:

$$R^2 = 0.9998$$

Cell Line: HEK293

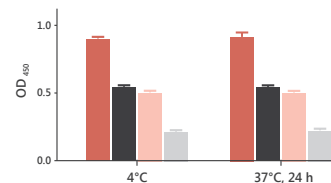
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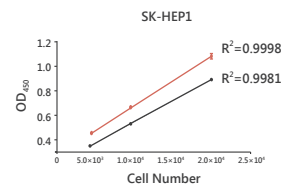
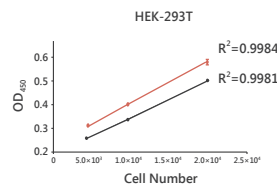
## — Excellent Stabilization:

■ U87  
■ U87 + Cis-platin (200 μM)  
■ SK-Hep1  
■ SK-Hep1 + Cis-platin (200 μM)



## — Brand Comparison:

→ MCE → DoJinDo



## Comparison of CCK-8 assay and other assays in Cell Proliferation & Cytotoxicity Testing:

| Assays                    | XTT                     | WST-1        | MTT             | CCK-8               |
|---------------------------|-------------------------|--------------|-----------------|---------------------|
| Formazan water Solubility | +                       | +            | -               | ++                  |
| Appearance                | Two Bottles of Solution | Solution     | Powder          | One-Bottle Solution |
| Usage                     | Mix to Use              | Ready to Use | Dissolve to Use | Ready to Use        |
| Sensitivity               | ++                      | ++           | +               | ++                  |
| Detection Time            | ++                      | ++           | +               | +++                 |
| Wavelength                | 420-480nm               | 420-480nm    | 560-600nm       | 430-490nm           |
| Stabilization             | -                       | +            | +               | ++                  |
| Massive Assays            | ++                      | ++           | +               | ++                  |
| Convenient                | ++                      | ++           | +               | +++                 |