

Easy evaluation using Mylc is now available anytime, anywhere.

# Evaluation kit

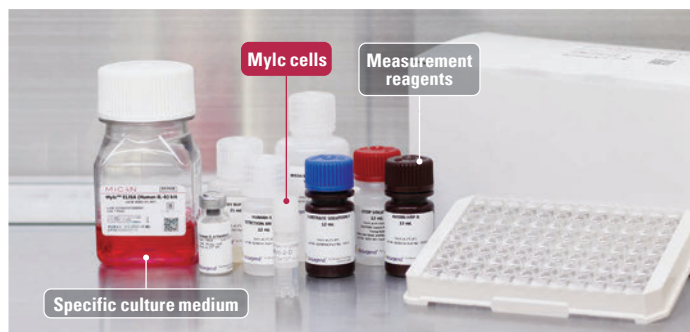
[Mylc ELISA (human IL-6) Kit]

You can obtain the results the day following the evaluation. This speed greatly accelerates research and development.

Evaluation kit using Mylc cells, which are excellent in precision and reproducibility. This kit contains the key materials and the evaluation conditions have already been optimized. Evaluation using cells which you are not familiar with is often troublesome, but you can start evaluation quickly with this kit optimized for evaluation. The result can be obtained in only 24 hours after adding the test substances. This kit allows you to reduce time and cost of evaluation drastically.

## Mylc ELISA(human IL-6)kit

Condition setting has already been done. You can start evaluation studies immediately.



POINT 1

**You can readily perform high quality evaluation.**

You can readily use a large quantity of homogeneous Mylc cells for evaluation without troublesome condition setting.

POINT 2

**Free from complicated condition setting.**

Because the kit is delivered with the optimum conditions for evaluation, you can readily start evaluation.

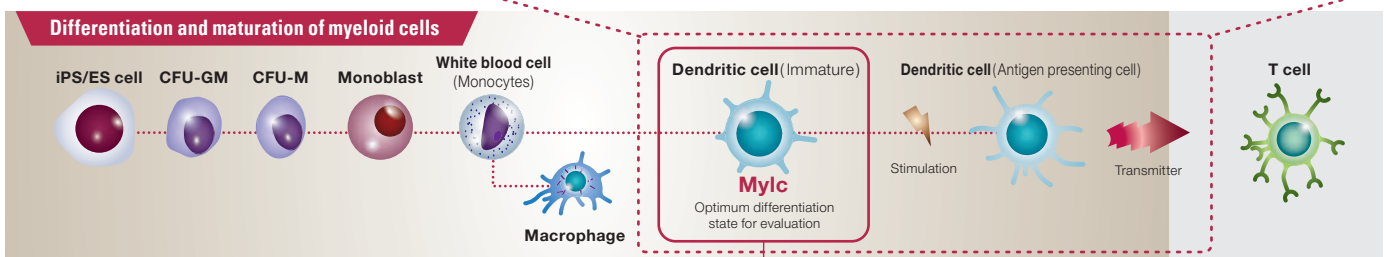
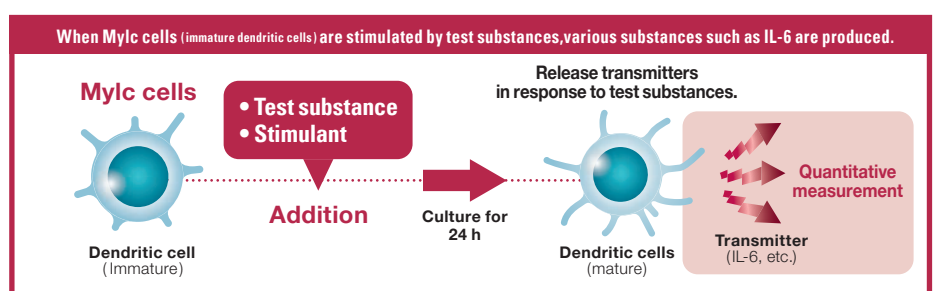
POINT 3

**You can start immediately with this All-in-One kit.**

This kit contains all the materials necessary for evaluation: from blood cells to measurement reagents. You can start evaluation immediately after opening the box.

## Principle of evaluation

A test substance is added to the Mylc cells, and the produced transmitter (IL-6) is quantified. In 24 hours, the intensity of the stimulation by the test substance can be evaluated numerically, which enables judgment of the function.



**Homogeneous blood cells with identical genetic information**

The same genetic information and conditions can be always reproduced because they are produced in our laboratory. This feature contributes to a drastic improvement in the accuracy and applicability of pharmaceutical evaluation.

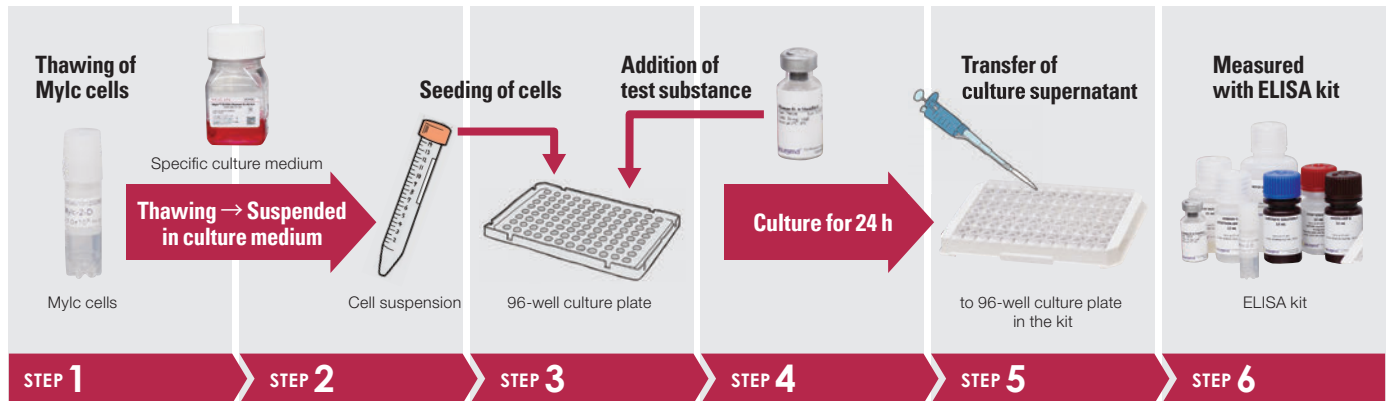
**We can control the differentiation stage to the optimum conditions**

Differentiation stage (maturity) can be minutely controlled with our high level of regenerative medicine technologies and product control. Research and evaluation of high accuracy are available.

**Stable mass-production and supply are possible**

You can obtain blood cells in the sufficient quantities in ideal condition any time. You can conduct research and development and efficacy evaluation with no delay and accelerate your development.

## Assay procedure



### STEP 1 Thawing of Mylc cells

Frozen cells in a vial are thawed in a water bath.

### STEP 2 Preparation of Mylc cells

After washing by centrifugation, the cells are suspended in a specific culture medium.

### STEP 3 Seeding of cells

Cells are seeded at a certain density in 96-well culture plates you provide.

### STEP 4 Addition of test substance

Add test substance with the stimulant, and culture for 24 h.

### STEP 5 Collection of culture supernatant

Transfer culture supernatant from each well to the 96-well culture plate in the kit.

### STEP 6 Measurement of IL-6 in culture medium

Quantified in a colorimetric ELISA assay according to the method attached to the kit.

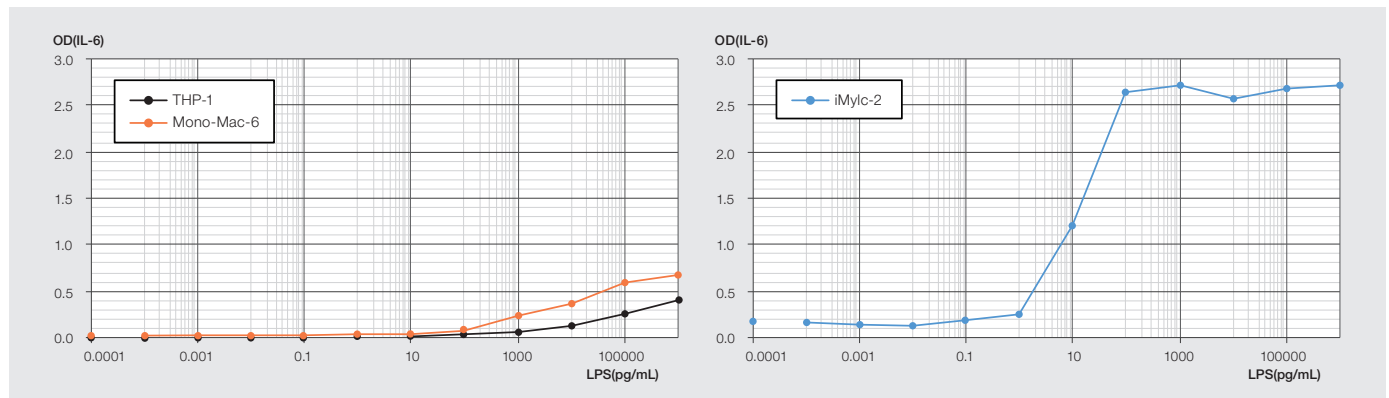
## In evaluation based on alternative methods to animal testing, Mylc cells respond with high sensitivity and stability.

Mylc, which shows similar response to in vivo cells, is superior in sensitivity in sensitization and stability compared with model cells (Mono-Mac-6, etc.) used in alternative methods to animal testing. In a comparison study in IL-6 production assay, Mylc-02 (right figure), used in this study, shows higher response at lower concentrations than Mono-Mac-6 (left figure).

### Comparison study with the Mono-Mac-6

Comparison study in IL-6 production assay, in which a pyrogen (LPS) was added (expressed in OD)

In Mylc-2 (right figure), used in this study, the production was detectable at lower concentrations than in Mono-Mac-6 (left figure), indicating a higher response.



### Contents of kit\*

Cells : Mylc cells (frozen in storage medium, 1 screw vial)  
 Specific culture medium : Specific for culture of Mylc cells for measurement and evaluation (frozen product, 50 mL bottle × 1)  
 Stimulant : NiSO<sub>4</sub> solution for control stimulation (refrigerated, 1 vial)  
 Measurement reagent : ELISA kit for measurement of IL-6 produced in supernatant

\* Please provide the following instruments and materials by yourself in advance.

Sterilized centrifuge tubes / Pipettes and pipette tips / 96-well culture plate  
 Centrifuge, CO<sub>2</sub> incubator / other necessary materials and instruments

### Evaluation and research in a common laboratory with Kyoto University

Our headquarters and research laboratory are located in Kyoto-University Katsura Venture Plaza, where Kyoto University nurtures the creation of new businesses utilizing new ideas/technologies and intellectual properties.



- Patent application for non-stimulated dendritic cells for research of viruses (Second product)
- Adopted for the Economic Gardening Support Grant supported by Kyoto Industrial Support Organization 21
- Certified as Management of Wisdom by the Kyoto Chamber of Commerce and Industry (2018)

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