

Tube Plate 600 Evidence Sheet

—The effect of a plasticizing agent on metabolic stability assay—

Plates made from materials with inhibitors

Plates made from materials without inhibitor

Hepatic microsomes reaction solution

● Verapamil
▲ Metabolite

Inhibitor (Chelating agent e.g. EDTA)

Pre-incubation

Fractionation before reaction

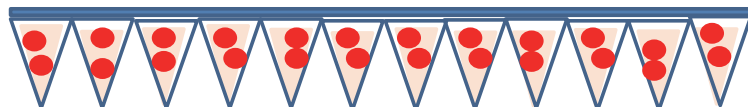
Reaction start

Reaction solution
+
Quenching solution

Reaction solution

Incubation

Quenching solution



LC/MS Analysis

A: Total amount of Verapamil

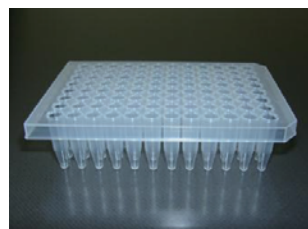
B: Residual amount of Verapamil

$$\text{Residual Rate} = \frac{B}{A} \times 100$$

Schematic drawing of an assay plate

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|----|----|----|
| A | | | | | | | | | | | | |
| B | | | | | | | | | | | | |
| C | | | | | | | | | | | | |
| D | | | | | | | | | | | | |
| E | | | | | | | | | | | | |
| F | | | | | | | | | | | | |
| G | | | | | | | | | | | | |
| H | | | | | | | | | | | | |

Well position of assay



Plates made from materials with inhibitor

VS

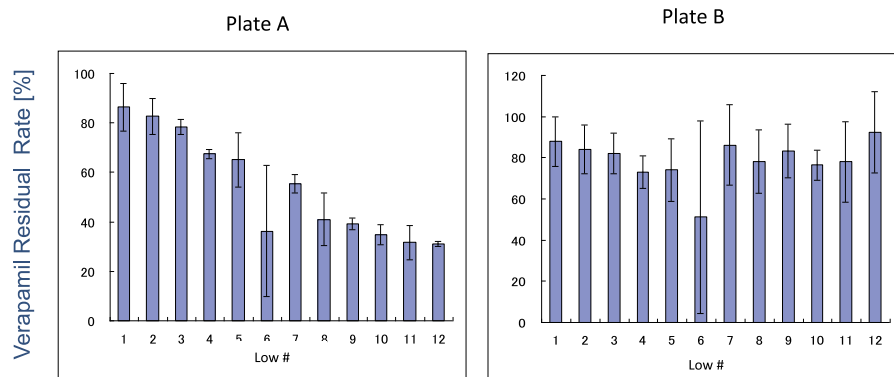
Plates made from materials without inhibitor

Results!



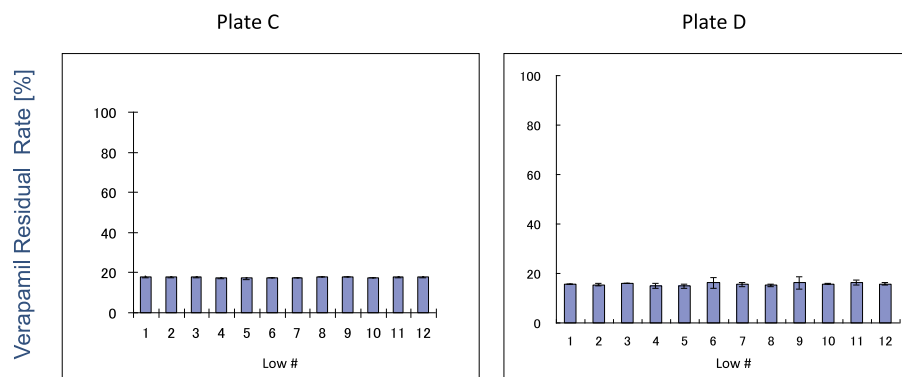
【Result】

Plates made from materials with inhibitor



Data dispersion between wells & plates

Plates made from materials without inhibitor



No data dispersion between wells & plates

Superior Reproducibility