

## Gas-permeable ability of disposable culture vessel

### Case1

Cell type: 253G1 (RIKEN BRC)

Culture medium: AK02N (Ajinomoto)

### Case2

Cell type: MG63 (Osteosarcoma) with collagen sponge

Culture medium: DMEM (Wako), 10% FBS, Antibiotic / Antimycotic (ThermoFisher)

Vessels: Glass culture vessel, Disposable culture vessel

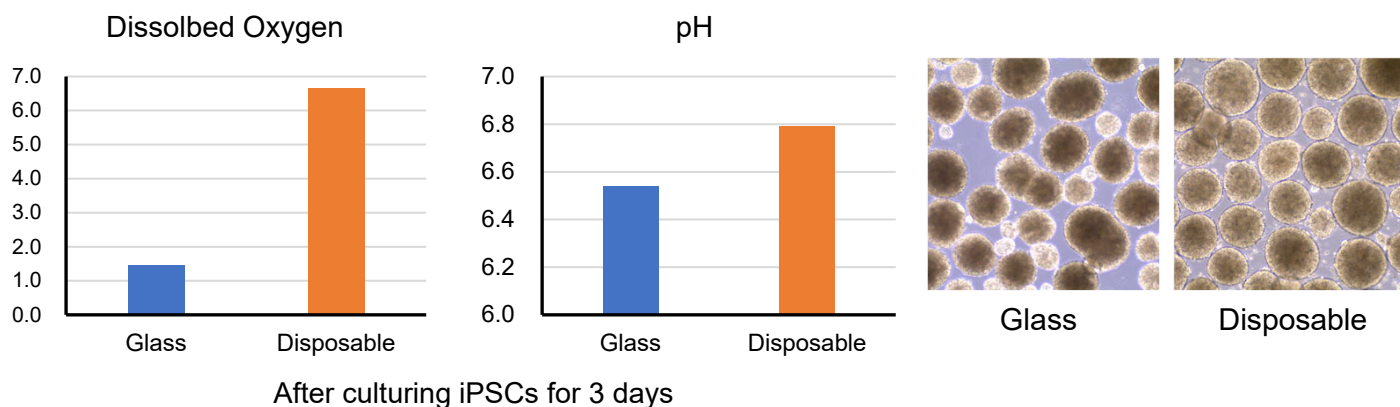
Speed: 6-20 rpm

### METHOD

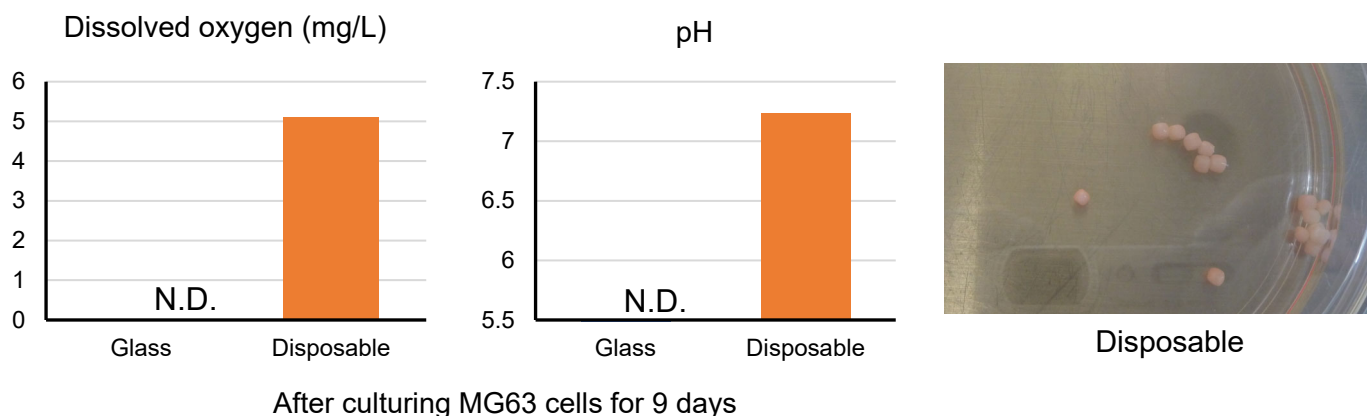
SevenExcellence S900; pH/ DO (MetraTredo)

### RESULTS

Case1: hiPSCs



Case2: MG63 (Osteosarcoma)



Human iPS cells were able to form spheroids in both culture vessels, but dissolved oxygen levels were greatly reduced during culture in glass.

Osteosarcoma cells could not be cultured in the glass vessel but could be cultured in the disposable one.

### CONCLUSION

It was suggested that the disposable culture vessel was oxygen permeable enough to allow the culture of cancer cells.

