

1. Product: Cell Culture Flask, Cell Culture Dish, Cell Culture Plate

SPL Life Sciences Cell Culture wares are designed for general cell culture research, procedures such as mammalian cell culture. Test and evaluation protocol was based on basic cell culturing technique, performed by the members SPL Life Sciences R&D Center.

2. Test overview

Item	Description
Test Products	96-well Plate, 100 mm Dish, 75T Flask
Test Brands	SPL, A사, B사, C사, D사 (B,C,D: Chinese competitor products)
Cell Lines	L929, HeLa, HEK-293
Culture Period	48 hours
Evaluation Parameter	Cell Confluency (%)
Number of Independent Experiments	2

2.1 Experimental condition

1) Cell Culture ware

Type	Cat No.	Sample Selection Method
Cell Culture Flask	70075	Random Sampling
Cell Culture Dish	20100	Random Sampling
Cell Culture Plate	30096	Random Sampling

2) Seeding Conditions

Cells were seeded at the following densities:

Culture Vessel	Product	Seeding Density
Cell Culture Flask	70075 / Competitors	450,000 cells/flask
Cell Culture Dish	20100 / Competitors	350,000 cells/dish
Cell Culture Plate	30096 / Competitors	2,000 cells/well

3) Cell Culture Conditions

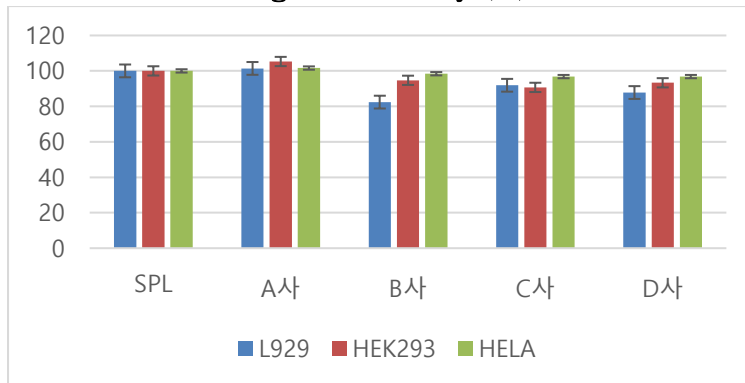
Parameter	Condition
Temperature	37°C
CO ₂	5%
Culture Period	48 h
Culture Medium	Cell-line appropriate complete medium
Culture Environment	Humidified CO ₂ incubator

2.2 Protocols

- ① Prepare cells under the recommended culture conditions until they reach an appropriate growth state.
- ② Detach and collect the cells to prepare a single-cell suspension, then adjust the seeding concentration.
- ③ Seed cells into each test group and culture them under identical conditions.
- ④ Observe cell morphology and distribution and measure **Cell Confluency (%)**.
- ⑤ Calculate the average values and compare cell culture performance among SPL and Chinese competitors.

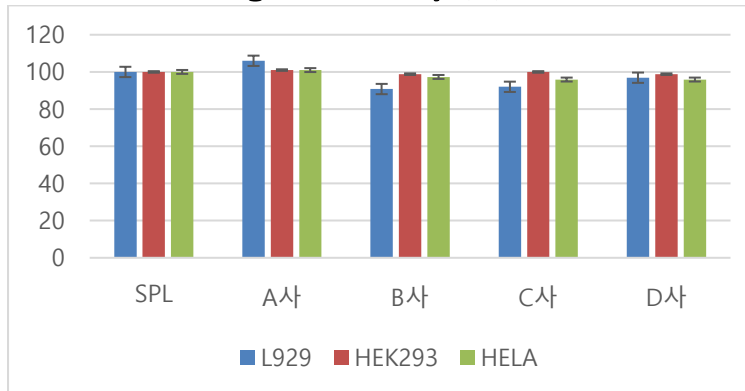
3. Results

3.1 Flask — Average Confluency (%)



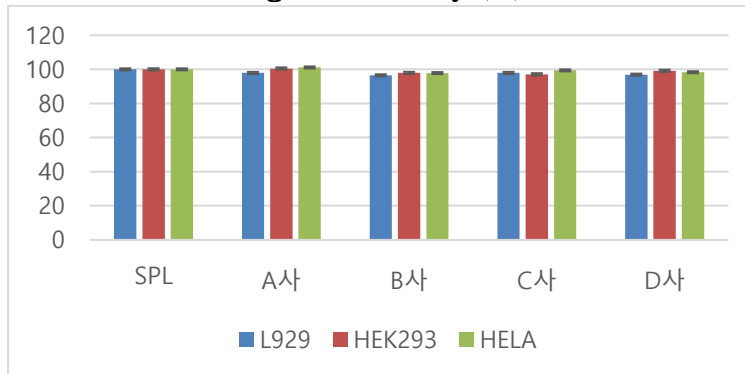
Cell Line	SPL	A사	B사	C사	D사
L929	100.0	101.4	82.4	91.9	87.8
HEK-293	100.0	105.3	94.7	90.7	93.3
HeLa	100.0	101.6	98.4	96.8	96.8

3.2 Dish — Average Confluency (%)



Cell Line	SPL	A사	B사	C사	D사
L929	100.0	101.4	82.4	91.9	87.8
HEK-293	100.0	105.3	94.7	90.7	93.3
HeLa	100.0	101.6	98.4	96.8	96.8

3.3 Plate — Average Confluency (%)



Cell Line	SPL	A사	B사	C사	D사
L929	100.0	97.9	96.5	97.9	92.9
HEK-293	100.0	100.5	97.9	97.1	99.2
HeLa	100.0	101.1	97.8	99.4	98.3

The SPL Flasks, Plates, Dishes are comparable or generally higher than those observed with the tested Chinese competitor products.

5. Conclusion

SPL Cell Culture Products Demonstrate Reliable and Consistent Cell Growth Performance

In this comparative cell culture study, SPL Flasks, Dishes, Plates are evaluated against products from A and selected Chinese brands using L929, HeLa, and HEK-293 cell lines.

These results demonstrate the **reliable cell culture performance and competitive quality** of SPL Cell Culture Products.

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