

1. Product: Black plate

SPL Black Plate has low auto-fluorescence with an ability of efficient light blocking to obtain the most accurate result in fluorescence experiments. Microscopic observation can be also done simultaneously with the fluorescence experiment due to its highly transparent bottom.



2. Experimental condition

1) Autofluorescence

- ① Instrument: BIOTEK Synergy HT
- ② Wave length: 400nm for excitation, 500nm for emission

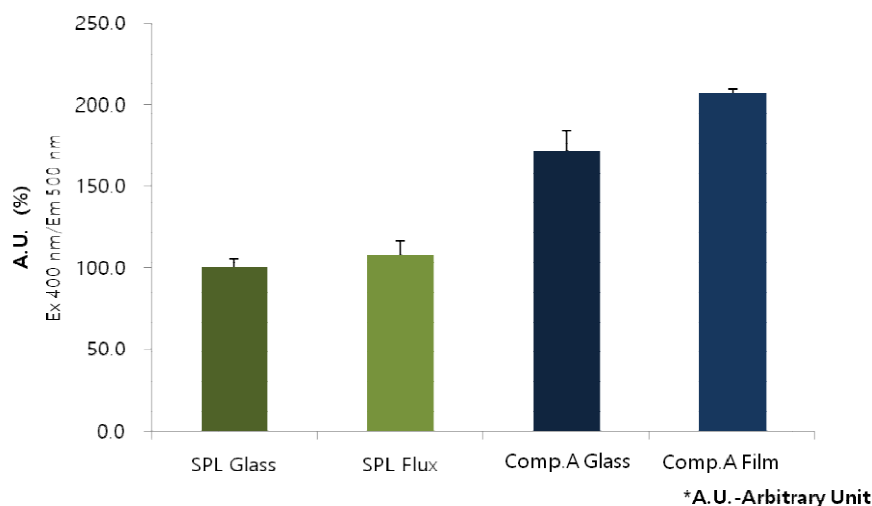
2) Light transmission

- ① Instrument: BIOTEK Synergy HT
- ② Scanning range: 200 nm ~ 860 nm

3) Animal cell culture

- ① Cell line: L-929 (mouse fibroblast)
- ② Cell No.: 5×10^4 cell/ml
- ③ Media: 10% FBS in RPMI1640
- ④ Culture condition: 37°C, 5% CO₂

3. Results



Gain50	SPL Glass	SPL Flux	Competitor Glass	Competitor Film
Average	40.78	44.00	70.10	84.40

Figure 1. Autofluorescence

- ◆ SPL Black plate showed very low autofluorescence compared to competitor's product, providing a platform to obtain more accurate analysis data.

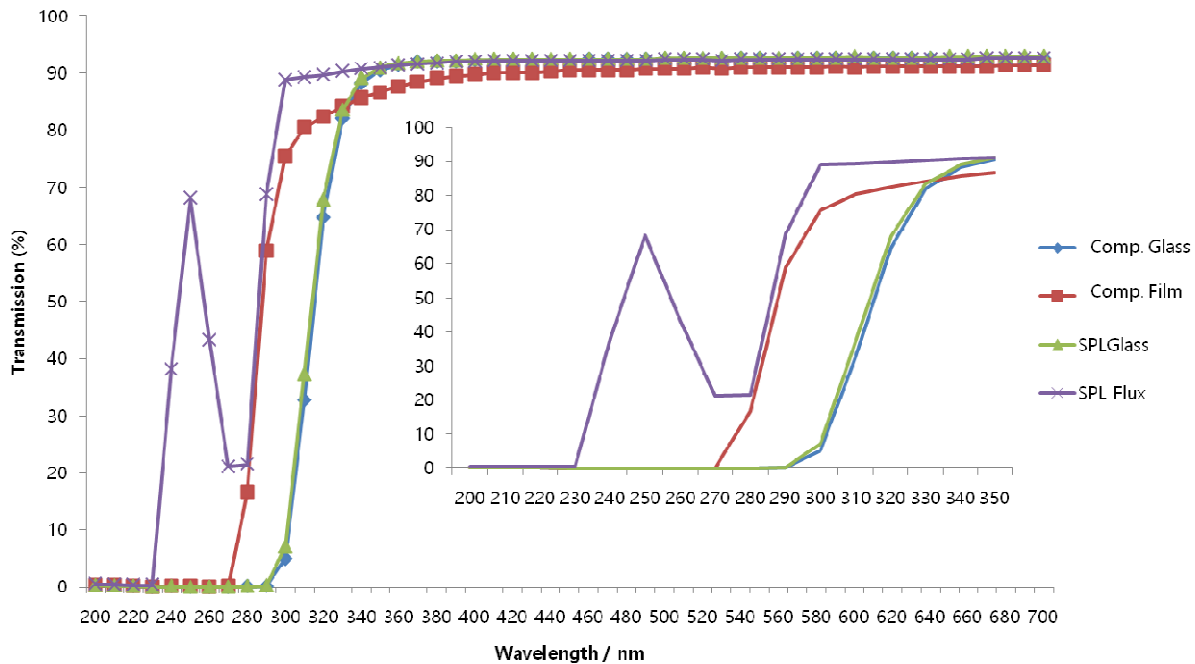


Figure 2. Light transmission

- ◆ SPL Black plate showed good light transmission capacity ranging from 200nm to 700nm. Especially, SPL Flux has higher transmission at UV range compared to competitors' products.

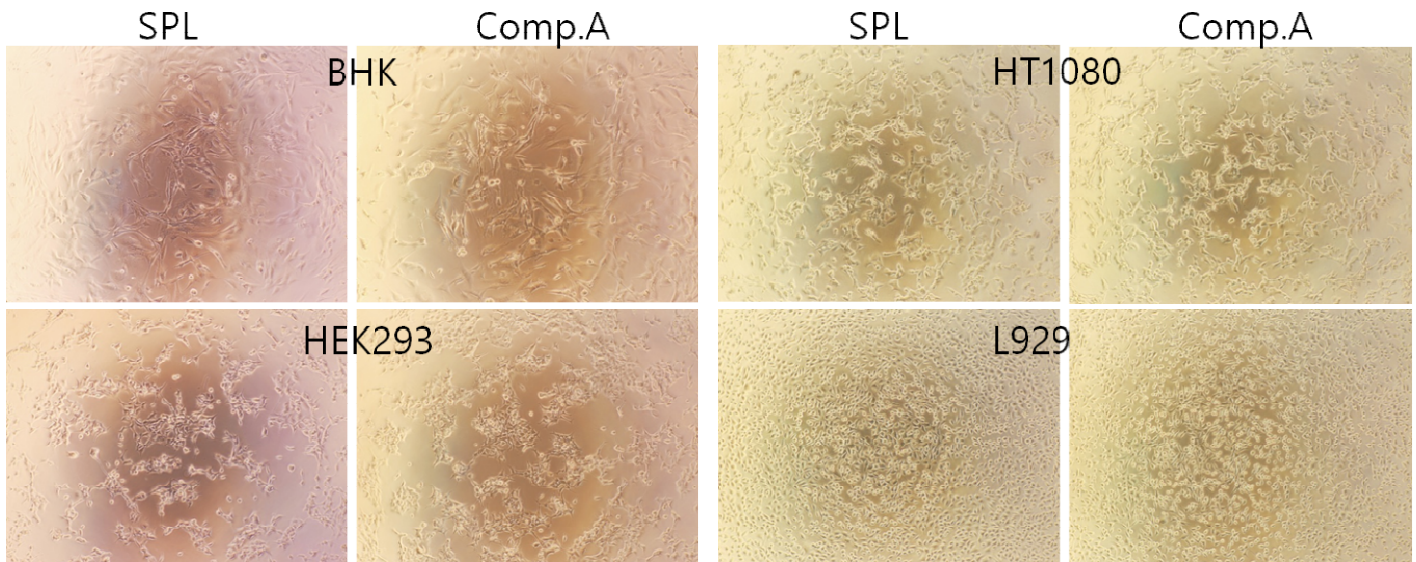


Figure 3. Microscopic observation of cultured animal cell lines

- ◆ Several animal cell lines are effectively cultured on the surface of SPL Black plate, showing good morphology and proliferative ability similar to competitor's product.

4. Conclusion

SPL Black plate provides efficient physical and biological properties to perform a fluorescent

analysis using animal cultured cells.

5. Ordering Information

Cat. No.	Material (plate/bottom)	Bottom Type	External Dimension (mm)	Well Dimension (mm)	Growth Area (cm ²)	Working Volume (ml)	Surface treatment	Sterile	Packaging
33196	PS/Glass	Flat	85.40 x 127.60 x 14.40	6.50 x 10.80	0.33	0.2	-	+	1/20
33296	PS / FLux	Flat	85.40 x 127.60 x 14.40	6.50 x 10.80	0.33	0.2	+	+	1/20
33396	PS / PS	Flat	85.40 x 127.60 x 14.40	6.50 x 10.80	0.33	0.2	+	+	5/25

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For technical assistance, contact SPL R&D Center at:

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To place an order, contact your local distributor or

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