

Splitting of SHSY5Y

How to split SHSY5Y

Materials

- Basic Culture Media
- Trypsin
- PBS
- 75 cm² culture flask

Procedure

- Aspirate medium
- Wash cells with 8 ml PBS
- Aspirate PBS
- Add 1 ml of Trypsin
- Incubate 3 minutes at 37°C
- Tap gently to loosen cells
- Quench Trypsin by adding 4 ml of Basic Culture Medium
- Triturate 5 times with a 10 ml pipette
- Transfer to centrifuge tube
- Triturate 4 times with a 5 ml pipette
- Count cells
- Transfer 850.000 cells into a new 75cm² culture flask
- Grow the cells in the Basic Culture Medium at 5% CO₂ and 37°C.
- Change medium every 2-3 days for maintaining SHSY5Y cells in culture

References

Shipley, Mackenzie M., Colleen A. Mangold, and Moriah L. Szpara. "Differentiation of the SH-SY5Y human neuroblastoma cell line." *Journal of visualized experiments: JoVE* 108 (2016): 53193.