

Metabolic Labeling of Azides using BiotinAlk using CuAAC

Prepare stock solutions of the following reagents in PBS.

	Reagents	MW (g/mol)	C _{Stock} (in PBS)	
٠	CuSO ₄	249.70	100mM	(~1 month shelf life)
٠	Sodium ascorbate	198.11	10mM	(make fresh)
٠	THPTA	434.50	50mM	(~1 month shelf life)
•	BiotinAlk	457.58	50mM	(~1 month shelf life)

Prepare stock solutions of the following reagents in PBA.

Streptavidin-PE in PBA 5µg/ml (PBA = 500ml PBS, 5gram BSA, 100mg sodium azide)

Reaction buffer (Prepare freshly and incubate 5min before adding to cells) Add 10ml PBS Add 25μl of CuSO₄ stock Add 20μl THPTA stock Add 20μl BiotinAlk

- 1. Incubate cells 3d with medium containing sugars
- 2. Collect cells and wash in 2x PBS
- 3. Add 95µl reaction buffer (see above)
- 4. Add 5µl sodium ascorbate (10mM stock in PBS)
- 5. Incubate 10 minutes at 37°C
- 6. Wash 3x with PBS + 1% BSA (no sodium azide!)
- 7. Add 0.5μ g/ml Streptavidin-PE in PBA (40 μ l) for 20min at 4°C
- 8. Wash 3x with PBS + 0.1% BSA
- 9. Resuspend in PBS + 0.1% BSA and acquire