

RNA Extraction From Sorted Cells

[Isolation of Total RNA from Transgenic Mouse Melanoma Subsets Using Fluorescence-Activated Cell Sorting](#)

Advice from Scott Tighe:

“Formaldehyde is the quickest way to degraded RNA. Absolutely the last thing you would want to expose RNA to. RNA later, RNAZap, RNAaway are also reagents you need to avoid.

The options are either a direct sort into Trizol or RLT buffer, ethanol, or PBS with an RNase inhibitor, Media with RNase inhibitor. Trizol LS allows the recovery of all RNA (microRNA, lncRNA, mRNA, rRNA ect). Each as its strengths and weaknesses. There is no "one size fits all"

Remember when you sort into Trizol LS or RLT you need to extract the same day. Do not freeze and extract days later. Not all cells can handle extended exposure to these reagents. Remember the 2'-OH group of RNA is highly reactive to hydrolysis.”