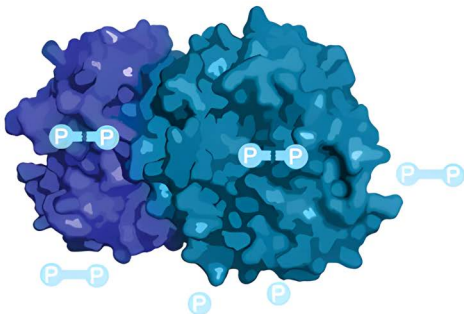




Pyrophosphatase



Yeast Inorganic Pyrophosphatase is a hydrolase enzyme, which cleaves a bond between phosphates in inorganic pyrophosphate. This enzyme is the first choice for improving in vitro RNA production in the laboratory due its unique properties.

1- Mix the components as provided in the table below and incubate the reaction mixture for at least 1 hour at 37°C.

Component	Final Concentration	Volume
ATP (100mM)	0.5 mM	1 μ l
CTP (100mM)	0.5 mM	1 μ l
GTP (100mM)	0.5 mM	1 μ l
UTP (100mM)	0.5 mM	1 μ l
RNA Polymerase Reaction Buffer (10X)	1X	2 μ l
DNA Template	20 ng/ μ l	-
T7 RNA Polymerase	8 U/ μ l	3.2 μ l
RNase inhibitor *	1 U/ μ l	0.5 μ l
Pyrophosphatase *	0.002 U/ μ l	0.4 μ l
Nuclease Free Water	-	Up to 20 μ l

- *Addition of these components are optional and can increase the reaction yield.

2- After the reaction, you can isolate RNA using commercial RNA clean up kits. Then store the sample at -80°C.