

00_05_dNTP-Mix-recipe

MITTWOCH, 7.7.2021

Goal-Setting

- Creating a dNTP mix containing all four nucleotides

Terms / abbreviations

- dATP = Deoxy adenosin triphosphate
- dCTP = Deoxycytidine triphosphate
- dGTP = Deoxyguanosine triphosphate
- dNTP = Deoxy nucleoside triphosphate
- dTTP = Deoxythymidine triphosphate

Risk areas

- None

Required materials and / or information

- dATP, ThermoFisher
- dCTP, ThermoFisher
- dGTP, ThermoFisher
- dTTP, ThermoFisher
- MilliQ water, Sartorius arium pro VF

Templates, devices, software

- PCR tubes, Sarstedt
- Pipettes, Eppendorf

Preliminary work

- None

Operation

- Creating a 10 mM dNTP mix in a PCR tube
 - Use the 100 mM stock of each dNTP
 - 10 mM of each dNTP is desired

Preparation of a dNTP mix



	A	B	C
1	Component	Volume [μ L]	Stock concentration [nM]
2	dATP	10	100
3	dCTP	10	100
4	dGTP	10	100
5	dTTP	10	100
6	water	60	-
7	total	100	

Disposal

- None

Troubleshooting

- None

Follow-up work

- [03_04_Phusion-PCR-reaction](#)