

iGEM 2017 – Microbiology – BMB – SDU	
Title: Preparing Primers	Date issued: 2013.06.17
SOP number: SOP15	Review date: 2017.05.09
Version number: 02	Original by: PRA
	Modified by: EG

1. **Purpose**

To prepare primers for use in experiments

2. **Area of application**

This procedure is valid for all synthesized primers

3. Apparatus and equipment

Apparatus/equipment	Location (Room number)	Check points	Criteria for approval/rejection
Pipettes (p1000,200,10)		•	
Nano-drop	V18-403b-1	•	

4. Materials and reagents – their shelf life and risk labelling

Name	Components	Supplier / Cat. #	Room (hallway storage)	Safety considerations
Blue pipette tips		Contact lab-manager	Micro storage	
Green pipette tips		Contact lab-manager	Micro storage	
Purple pipette tips		Contact lab-manager	Micro storage	
Synthesized primer		E.g. Sigma Aldrich	Micro storage	
1.5mL safe-lock eppendorf tube		Contact lab-manager	Micro storage	
Distilled water		Contact lab-manager	Micro storage	

5. QC – Quality Control

Measure that DNA has been dissolved with the nano-drop on the 10 μ M concentration

6. List of other SOPs relevant to this SOP

7. Environmental conditions required

8. Procedure

- 8.1 Dissolve the synthesized primer in the amount of distilled water for an end concentration of 100 μ M (see delivery note from supplier)
- 8.2 Add 90 μ L distilled water to an empty 1.5mL safe-lock eppendorf tube.
- 8.3 Add 10 μ L of the dissolved primer to the 1.5mL safe-lock eppendorf tube
- 8.4 Store the 100 μ M concentration at -20°C as a stock

8.5 Store the 10µM concentration at -20°C or 5°C for experimental use

8.6 Optional: Measure DNA with the nano-drop.

9. Waste handling

Chemical name	Concentration	Type of waste (C, Z...)	Remarks

10. Time consumption

- Total-time 15 min.
- Hands-on-time 15 min.

11. Scheme of development

Date / Initials	Version No.	Description of changes
13.06.17 / RPA	01	The SOP has been written
13.01.02 / AK	01	The SOP has been approved
17.05.09 / EG	02	The SOP has been modified
17.05.10 / SJ	02	The SOP has been approved

12. Appendices