iGEM 2016 – SDU	
Title: 2xYT media **SOP number:** SOP0030 **Version number:** 01	**Date issued:** 2016/08/25 **Review date:** 11/10/2016 **Written by:** Joel Vej-Nielsen & Jakob Rønning

1. Purpose

Media for growth of cell cultures with high cell density and a longer growth period for *E. coli*

2. Area of application

This procedure is valid for all *E. coli* strains

3. Apparatus and equipment

Apparatus/equipment	Location (Room number)	Check points	Criteria for approval/rejection
Autoclave	Chemical room		
pH-meter	Chemical room		
Weight	Chemical room		
Weigh dishes			
Single use plastic			

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

Name	Components (Concentrations)	Manufacturer / Cat. #	Room	Safety considerations
Tryptone			Chemical room	
Yeast extract			Chemical room	
NaCl			Chemical room	
Distilled water				
1 L media bottle			Micro storage	

5. QC – Quality Control

6. List of other SOPs relevant to this SOP

SOP0001 – ON culture

7. Environmental conditions required

8. Procedure

1. Measure ~900ml of distilled H_2O and put in flask 1L.
2. Add 16 g Tryptone, 10 g yeast extract, 5 g NaCl and mix with distilled H_2O.
3. Adjust pH to 7.0 with 10 M NaOH (~ 200 µL).
4. Adjust volume to 1 liter with Distilled H_2O.
5. Sterilize by autoclaving and store at room temperature.

9. Waste handling

Chemical name	Concentration	Type of waste (C, Z…)	Remarks
Once use plastic			
Weigh dishes			

10. Time consumption

- Total-time 3 h.
- Hands-on-time 30 min.

11. Scheme of development

Date / Initials	Version No.	Description of changes
16.08.25 / JVN & JR	01	The SOP has been written
16.10.12 / JVN & JR		reviewed

12. Appendixes