Author: Miriam Dreesbach Entry 1/61: 100x BG-11 Media

In Project: Solutions

With tags: BG-11, Media, Synechococcus, Cyanobacteria

created: 06.04.2018 10:16 updated: 06.04.2018 13:26

1 L 100x BG-11 stock solution contains:

- CaCl₂ 2H₂O (3.6 g · L⁻¹)
 - We do not have hydrated CaCl₂. Therefore, we used 2.718 g CaCl₂ (powder) for 1L of the stock.
- Citric acid (0.6 g · L⁻¹)
- NaNO₃ (149.58 g · L⁻¹)
- $MgSO_4 \cdot 7 H_2O (7.49 g \cdot L^{-1})$
 - We do not have hydrated MgSO₄. Therefore, we used 3.659 g MgSO₄ (powder) for 1L of the stock.
- 0.25 M Na₂-EDTA, pH 8.0 (0.56 ml · L⁻¹)
 - We did not have a 0.25 M Na₂-EDTA stock. Therefore, we dissolved 2.32 g Na₂-EDTA (powder) and filled the bottle up with MilliQ (nuclease-free) water up to 25 mL. Afterwards, the pH was adjusted with diluted NaOH to pH = 8.0.

The bottle was filled with MilliQ (nuclease-free) water up to 1L and mixed a big stir bar until the powder was completely dissolved and the solution was clear.

Afterwards, the stir bar was removed and the media was directly autoclaved at 120 °C for 30 Minutes.

Date:	Signed and understood by:
Date:	Witnessed and understood by:

created: 06.04.2018 14:13

updated: 07.04.2018 09:17

Author: Katharina Polzen

Entry 2/61: Antibiotics In Project: Solutions

With tags: antibiotic, sterile filtration, cam, chloramphenicol, amp, ampicillin, kan,

kanamycin

Chloramphenicol:

We have prepared Chloramphenicol stock solution with a concentration of 50 mg/mL. Chloramphenicol was solved in 100% EtOH. The solution was sterilized by sterile filtration and stored at -20°C.--> 10 mL with 500 mg Chloramphenicol

Ampicillin:

We have prepared Ampicillin stock solution with a concentration of 10 mg/mL. Ampicillin was solved in H₂O (MilliQ). The solution was sterilized by sterile filtration and stored at -20°C.--> 40 mL with 400 mg Ampicillin

Kanamycin:

We have prepared Kanamycin stock solution with a concentration of 10 mg/mL. Kanamycin was solved in H₂O (MilliQ). The solution was sterilized by sterile filtration and stored at -20°C.--> 20 mL with 200 mg Kanamycin

IMG 7418.JPG

	Stam	m-Lsg.	Flüssigmedium	Festmedium	
	mg/ml	in	μg/ml	μg/ml	ie 100 ml
Ampicillin	10 SK	H ₂ O	100	100	1 ml
Kanamycin	10 SK	H ₂ O	50	50	500 µl
Tetracyclin	2,5 SLT	30% EtOH	25	25	1 ml
Gentamycin	10 SK	H ₂ O	50	50	500 ul
Rifampicin	10 RTL	EtOH		00	300 μι
X-Gal	2% LK (20 mg / ml)	DMSO/DMF			60µl auf eine
IPTG	100mM LT	H ₂ O	10µM	10	Platte
Chloramphenicol	50 ^{SLK}	100% EtOH	34	10μM 34	10µl

Bild_von_iOS_hochgeladen_(1).jpg			
Aufi biolika	kouzuh	ch'ouen	
E. coli	Cyanos	Hock	
Amp/ 100 ug	100 14	100 custus in 50%. Ethor	
Cm / 35 kg	10 fig	10 mg/inl	
Kun 1 25 juglar		25 mg/ml in the 0	
Spec/100 mg/m	e 20 jugled	20 cuspel in the	
4		7	
Gim 2			

Date:	Signed and understood by:
Date:	Witnessed and understood by:

Author: Katharina Polzen Entry 3/61: CaCl2 & Glycerin In Project: Solutions		created: 06.04.2018 15:17 updated: 06.04.2018 15:28		
With tags: CaCl2, glycerin				
Calciumchlorid (100mM;Volu	ime 200ml):			
110,99 g/mol -> 11,099 g für ein Liter -> 2,2g für 200ml				
angesetzt für unseren Stock				
Glycerin(99,5%):	Glycerin(99,5%):			
aus Stock für unseren Stock alliquatiert				
Date:	Signed and understood by:			
Date:	Witnessed and understood by:			

Author: Matthias Willmann

Created: 06.04.2018 15:26

Entry 4/61: YPD Medium

In Project: Solutions

No tags associated

0,5 I YPD Medium contains:

- 5 g yeast extract
- 10 g Peptone
- 10 g D-Glucose 180,16 g/mol

2 Liter were made (4x 500 ml flasks)

The bottles were filled with MilliQ water up to 0,5L and mixed with a big stir bar until the powder was completely dissolved and the solution was clear.

Afterwards, the stir bar was removed and the media was directly autoclaved at 120 °C for 30 Minutes.

Date:	Signed and understood by:
Date:	Witnessed and understood by:

Author: Matthias Willmann Entry 5/61: LB Medium In Project: Solutions No tags associated created: 06.04.2018 15:51 updated: 06.04.2018 15:58

0,5 I LB medium contains

12,5 g LB-Medium

2,5 liter were made (5 x 500 ml).

The bottles were filled with MilliQ water up to 0,5L and mixed with a big stir bar until the powder was completely dissolved and the solution was clear.

Afterwards, the stir bar was removed and the media was directly autoclaved at 120 °C for 30 Minutes.

Date:	Signed and understood by:
Date:	Witnessed and understood by:

Author: Jennifer Denter created: 06.04.2018 20:09
Entry 6/61: Preparation of 0.5M EDTA Stock Solution; created: 06.04.2018 20:09
updated: 16.05.2018 17:00

In Project: Solutions

With tags: 0.5M EDTA, EDTA Stock Solution, EDTA Stock

Preparation of 0.5M EDTA Stock Solution

93,05 g of EDTA Disodium Salt (372,24 g/mol)

400 ml MilliQ water

--> Mix ang adjust pH to 8 pH (used 2M NaOH)

At pH 8 the solution becomes clear

Fill up to 500 ml and autoclave

Date:	Signed and understood by:
Date:	Witnessed and understood by:

Author: Katharina Polzen

Entry 7/61: YPD Agar

In Project: Solutions

With tags: YPD, Agar, Medium

0,5 I YPD Agar Medium contains:

25 g YPD medium

10 g Bacto Agar

0,5 L were made (1x 500 ml flasks)

The bottles was filled with MilliQ water up to 0,5L and mixed with a big stir bar until the powder was completely dissolved and the solution was clear.

Afterwards, the stir bar was removed and the media was directly autoclaved at 120 °C for 30 Minutes.

Signed and understood by:

Witnessed and understood by:

Date:

Date:

Author: Miriam Dreesbach

Entry 8/61: 1 M NaCl

In Project: Solutions

created: 12.04.2018 12:32

updated: 12.04.2018 12:35

1 M NaCl Solution:

With tags: nacl

- We weighed 58,4 g NaCl (powder).
- We put the powder into a 1 L flask.
- We filled up to 1 L with milliQ water (nuclease-free).
- Afterwards, we autoclaved the solution.

Date:	Signed and understood by:
Date:	Witnessed and understood by:

Author: Miriam Dreesbach

Entry 9/61: 1 M Tris-HCl

In Project: Solutions

With tags: Tris-HCl

created: 12.04.2018 12:35

updated: 12.04.2018 12:42

1 M Tris-HCI:

- We weighed 12,1 g Tris-HCl (powder) with respiratory protection on.
- We put the powder into a flask.
- We solved the powder in 80 mL milliQ water (nuclease-free).
- \bullet $\,$ We adjusted the pH of the solution to 8.0 with concentrated (37 %) HCl under the hood.
- Afterwards we autoclaved it.

Date:	Signed and understood by:
Date:	Witnessed and understood by:

Author: Miriam Dreesbach

Entry 10/61: 1 M CaCl2

In Project: Solutions

created: 12.04.2018 12:39
updated: 12.04.2018 12:42

1 M CaCl₂:

With tags: CaCl2

- We weighed 110,99 g CaCl₂ (powder) with gloves on
- We put the powder into a 1 L flask
- We filled the bottle up to 1 L with milliQ water (nuclease-free)
- Afterwards we autoclaved it.

Date:	Signed and understood by:
Date:	Witnessed and understood by:

Author: Miriam Dreesbach Entry 11/61: STE Buffer In Project: Solutions With tags: STE buffer		created: 12.04.2018 12:43 updated: 12.04.2018 12:54
STE Buffer:		
The STE buffer should conta	ain:	
 100 mM NaCl 10 mM Tris/HCl 1 mM EDTA pH = 8.0 		
We used the following stock	s for preparing the buffer:	
0.5 M EDTA1 M Tris-HCI1 M NaCI		
We calculated the needed vo V (needed) * c (needed) = V	olumina with the following formula: (stock) * c (stock)	
We pipetted the following vo	lumina:	
 2 mL 1 M NaCl 40 μL 0.5 M EDTA 200 μL 1 M Tris-HCl 		
Then we filled up the flask to	20 mL with milliQ water (nuclease-free).	
Afterwards, we autoclaved it		
The pH needs to be adjusted	d before using it.	
Date:	Signed and understood by:	
Date:	Witnessed and understood by:	

Author: Miriam Dreesbach Entry 12/61: TE Buffer In Project: Solutions			created: 12.04.2018 12:49 updated: 13.05.2018 13:56
With tags: TE buffer			
The TE buffer should contain	:		
• 10 mM Tris/HCl			
• 1 mM EDTA			
• pH = 8.0			
We used the following stocks	for preparing the buffer:		
• 0.5 M EDTA			
• 1 M Tris-HCl			
We pipetted the following vol	umina:		
• 40 μL 0.5 M EDTA			
• 200 μL 1 M Tris-HCl			
There we filled we the fleel to	OO malitle mailliOataw (aalaaaa	func	
Then we lilled up the liask to	20 mL with milliQ water (nuclease	-iree).	
Afterwards, we autoclaved it.			
The pH needs to be adjusted	before using it.		
Date:	Signed and understood by:		
Date:	Witnessed and understood by:		

Author: Carina Gude created: 16.04.2018 15:12
Entry 13/61: 1% Agarose gel, TAE Buffer and working solution created: 16.04.2018 15:16

In Project: Solutions

With tags: agarose gel, TAE

1% Agarose gel:

- 3g Agarose
- 300ml TAE Buffer

TAE Buffer

- weigh out 242 grams of Tris-base (MW = 121.14 g/mol) and dissolve in approximately 700 milliliters of deionized water
- Carefully add 57.1 milliliters of 100 % glacial acid (or acetic acid) and 100 milliliters of 0.5 M EDTA (pH 8.0)
- adjust the solution to a final volume of 1 liter
- the pH of this buffer is not adjusted and should be about 8.5
- store stock solution at room temperature

TAE working solution:

- 20 ml 50 x TAE
- ad 1000 ml a. dest.

Date:	Signed and understood by:
Date:	Witnessed and understood by:

Author: Thomas Bick created: 23.04.2018 22:27
Entry 15/61: SD media preparation updated: 14.08.2018 11:24

In Project: Solutions With tags: yeast, SD

Yeast Synthetic Dropout Medium 10x (SD Medium 10x)

6,7 g Difco Yeast Nitrogene Base w/o AA

5 g Glucose

1,92 g Yeast Synthetic Drop-out Medium Supplements (-His, -Leu, -Trp, -Ura)

ad. 100 ml H2O

stir until completly solved (if necessary heated)

sterile filtering

Aminoacid stock solutions for Adenin

18 mg/l

Aminoacid stock solutions for Histidine and Tryptophane

76 mg/l

Aminoacid stock solutions for Leucine

380 mg/l

For working concentrations add 5 ml SD Medium 10x with 1 ml Aminoacid stock solution (depends on your yeast marker).

ad. to 50 ml with H20 for liquid media

2% (w/v) Agar in H2O for plates

Date:	Signed and understood by:
Date:	Witnessed and understood by:

Author: Katharina Polzen created: 15.05.2018 07:13
Entry 16/61: Antibiotics updated: 15.05.2018 07:15

In Project: Solutions

With tags: antibiotic, ampicillin, chloramphenicol

Chloramphenicol:

Prepared Chloramphenicol stock solution with a concentration of 25 mg/mL. Chloramphenicol was solved in 100% EtOH. The solution was sterilized by sterile filtration and stored at -20°C.--> 10 mL with 250 mg Chloramphenicol

Ampicillin:

Prepared Ampicillin stock solution with a concentration of 10 mg/mL. Ampicillin was solved in H₂O (MilliQ). The solution was sterilized by sterile filtration and stored at -20°C.--> 40 mL with 400 mg Ampicillin

Date:	Signed and understood by:
Date:	Witnessed and understood by:

Author: Sarah Seyffert created: 15.05.2018 13:48
Entry 17/61: Xgal in DMSO updated: 15.05.2018 13:48

In Project: Solutions With tags: X-gal

Preparation of a X-gal solution 20mg/ml

- perpare a with aluminium foil coated tube(x-gal is light sensitive)
- weigh 20 mg X-gal powder
- add in a tube
- fill in 1ml DMSO sterile
- resuspend
- store at 4°C

Date:	Signed and understood by:
Date:	Witnessed and understood by:

Author: Susanne Vollmer
Entry 18/61: No entry title yet
In Project: Solutions
No tags associated

refill of 1l 1x TAE with 20ml 50x TAE and 980ml Milli Q

Date: Signed and understood by:

Witnessed and understood by:

 Author: Ylenia Longo
 created: 17.05.2018 14:39

 Entry 19/61: 1xTAE buffer
 updated: 17.05.2018 14:40

With tags: TAE, Buffer, gel, electrophoresis

In Project: Solutions

50xTAE solution has been diluted to 1x TAE solution by mixing 20mL of 50xTAE solution with 900mL MilliQ water. The solution is stored in the iGEM lab.

Date:	Signed and understood by:
Date:	Witnessed and understood by:

Total of Transaction Control of C		created: 24.05.2018 11:43 updated: 24.05.2018 11:45
Making of Amp and Amp law	salt plates.	
Date:	Signed and understood by:	
Date:	Witnessed and understood by:	

Author: Katharina Polzen Entry 21/61: Tae Buffer In Project: Solutions No tags associated		created: 24.05.2018 11:45 updated: 24.05.2018 11:45
Refill of 1x TAE buffer.		
Date:	Signed and understood by:	
Date:	Witnessed and understood by:	

Author: Sarah Seyffert
Entry 22/61: TAE refill
In Project: Solutions
With tags: TAE

Refill of 2 bottles of 1x TAE-buffer

20ml 50TAE-buffer
fill up to 1L with miliQ

Date:
Signed and understood by:

Witnessed and understood by:

Author: Carina Gude created: 28.05.2018 14:21 Entry 23/61: 2x BG11 updated: 28.05.2018 14:23

With tags: BG-11, Cyanobacteria

Standard 2x BG11

In Project: Solutions

2 500 ml bottles were filled with 250 ml ultra pure water each

Then

- 10ml 100x BG11 stock
- 1ml 1000x Na₂CO₃
- 1ml 1000x K₂HPO₄ x 3 H₂O
- 10ml 100x TES-buffer, pH = 8.0
- 1ml 1000x Trace Metal Mix

was added to each bottle.

Ultra pure water was added to 500ml

Autoclave.

Date:	Signed and understood by:
Date:	Witnessed and understood by:

 Author: Carina Gude
 created: 28.05.2018 17:24

 Entry 24/61: Preparation of 1x BG-11
 updated: 28.05.2018 17:27

In Project: Solutions

With tags: BG-11, Cyanobacteria

1. Fill 1 L bottle with 500 mL ultra pure water.

- 2. Add stock solutions:
 - 1. 10ml 100x BG11 Stock
 - 2. 1 ml 1000x $\mathrm{Na_2CO_3}$
 - 3. 1 ml 1000x K_2HPO_4 x 3 H_2O
 - 4. 10 ml 100x TES-buffer
 - 5. 1 ml 1000x Trace Metal Mix
- 3. Add ultra pure water to 1 L.
- 4. Autoclave.

Date:	Signed and understood by:
Date:	Witnessed and understood by:

Author: Ylenia Longo created: 30.05.2018 15:44
Entry 25/61: IPTG stock solution 0.1M updated: 30.05.2018 15:46

In Project: Solutions

With tags: IPTG, stock, 0.1M

An IPTG stock solution has been prepared with a final concentration of 0.1M.

For this purpose 0.6g of IPTG were added to 25mL of ddH20 and the tube was inverted until the IPTG was completely dissolved. The final stock solution is sterile filtrated, aliquoted and stored at -20°C.

Date:	Signed and understood by:
Date:	Witnessed and understood by:

 Author: Ylenia Longo
 created: 31.05.2018 10:49

 Entry 26/61: X-gal in DMSO
 updated: 31.05.2018 10:58

In Project: Solutions

With tags: X-gal, DMSO, blue white screening

A X-gal solution with a final concentration of 20mg/ml was prepared.

For this purpose 200mg of X-gal were dissolved in 10mL DMSO in a 15mL falcon tube. Afterwards the falcon was vortexted until the powder is completely dissolved.

The stock solution was aliquoted in 1.5mL tubes, wrapped with aluminium foil and stored at -20°C.

Date:	Signed and understood by:
Date:	Witnessed and understood by:

Author: Thomas Bick Entry 27/61: 1x TAE In Project: Solutions With tags: TAE		created: 31.05.2018 13:05 updated: 31.05.2018 13:06
Refill of 2 bottles of 1x TAE-I 20ml 50TAE-buffer fill up to 1L with MiliQ	puffer	
Date:	Signed and understood by:	
Date:	Witnessed and understood by:	

Author: Sarah Seyffert Entry 28/61: 100xM2-stock

In Project: Solutions
With tags: M2-Medium

created: 05.06.2018 20:52 updated: 28.09.2018 13:00

M2-Medium has to be prepared for our co-culturing experiments. Therefore a 100x stock solution has been made

1 L 100x M2 stock solution contains:

- CaCl₂ 2H₂O (3.6 g · L⁻¹)
 - We do not have hydrated CaCl₂. Therefore, we used 2.718 g CaCl₂ (powder) for 1L of the stock.
- Citric acid (0.6 g · L⁻¹)
- NaNO₃ (17 g · L⁻¹)
- $MgSO_4 \cdot 7 H_2O (7.49 g \cdot L^{-1})$
 - We do not have hydrated MgSO₄. Therefore, we used 3.659 g MgSO₄ (powder) for 1L of the stock.
- 0.25 M Na₂-EDTA, pH 8.0 (0.56 ml · L⁻¹)
 - We did not have a 0.25 M Na₂-EDTA stock. Therefore, we dissolved 2.32 g Na₂-EDTA (powder) and filled the bottle up with MilliQ (nuclease-free) water up to 25 mL. Afterwards, the pH was adjusted with diluted NaOH to pH = 8.0. (Done by Miriam and Susanne 06.04.18)
- K2HPO4 (82,3g·L⁻¹)

The bottle was filled with MilliQ (nuclease-free) water up to 1L and mixed a big stir bar. The solution did not dissolve completely.

Date:	Signed and understood by:
Date:	Witnessed and understood by:

Author: Katharina Polzen created: 06.06.2018 15:30 Entry 29/61: Ampicillin updated: 06.06.2018 15:32

With tags: ampicillin, antibiotic

In Project: Solutions

Ampicillin:

A Ampicillin stock solution with a concentration of 10 mg/mL was prepared. Ampicillin was solved in H₂O (MilliQ). The solution was sterilized by sterile filtration and stored at -20 °C.--> 40 mL with 400 mg Ampicillin

Date:	Signed and understood by:
Date:	Witnessed and understood by:

Author: Sarah Seyffert

Entry 30/61: No entry title yet

In Project: Solutions
With tags: M2-Medium

created: 06.06.2018 16:42 updated: 28.09.2018 13:01

Because the salts did not resolve in the M2 medium a new approach was made:

100 x K2HPO4(82,3g/l) stock for the M2-Medium

41,15g were disolved in 500ml until the solution was clear

M2-Medium has to be prepared for our co-culturing experiments. Therefore a 100x stock solution has been made

1 L 100x M2 stock solution contains:

- CaCl₂ 2H₂O (3.6 g · L⁻¹)
 - We do not have hydrated CaCl₂. Therefore, we used 2.718 g CaCl₂ (powder) for 1L of the stock.
- Citric acid (0.6 g · L⁻¹)
- NaNO₃ (17 g · L⁻¹)
- $MgSO_4 \cdot 7 H_2O (7.49 g \cdot L^{-1})$
 - We do not have hydrated MgSO₄. Therefore, we used 3.659 g MgSO₄ (powder) for 1L of the stock.
- 0.25 M Na₂-EDTA, pH 8.0 (0.56 ml · L⁻¹)
 - We did not have a 0.25 M Na₂-EDTA stock. Therefore, we dissolved 2.32 g Na₂-EDTA (powder) and filled the bottle up with MilliQ (nuclease-free) water up to 25 mL. Afterwards, the pH was adjusted with diluted NaOH to pH = 8.0. (Done by Miriam and Susanne 06.04.18)

The bottle was filled with MilliQ (nuclease-free) water up to 1L and mixed a big stir bar until the powder was completely dissolved and the solution was clear.

PH was adjusted to 8.3

Date:	Signed and understood by:
Date:	Witnessed and understood by:

		g. 5 :
Author: Katharina Polzen Entry 31/61: Dropout medium In Project: Solutions With tags: sterile filtration, Me		created: 07.06.2018 14:53 updated: 07.06.2018 14:56
Dropoutmedium (10X)		
 6,7 g Difco Yeast Nitrogene Base w/o AA 5 g Glucose 1,92 g Yeast Synthetic Drop-out Medium Supplements ad. 100 ml H₂O 		
Double the amount was made and then sterile filtered.		
Date:	Signed and understood by:	
Date:	Witnessed and understood by:	

 Author: Ylenia Longo
 created: 08.06.2018 14:58

 Entry 32/61: 30% sucrose solution
 updated: 08.06.2018 15:03

In Project: Solutions

With tags: saccharose, sucrose

A 30% sucrose solution is prepared by weighting 60g saccharose and adding 200mL water to it. The solution is stirred until completely dissolved and then sterile filtrated by vacuum pumping.

Date:	Signed and understood by:
Date:	Witnessed and understood by:

Author: Sarah Seyffert created: 08.06.2018 22:58
Entry 33/61: 1x M2 updated: 08.06.2018 23:05
In Project: Solutions

1x M2 was made from the 100x M2 stock

- 10 ml 100x M2
- 10 ml 100x K₂HPO₄ (82g/l)
- 1 ml 1000x Na₂CO₃

With tags: M2-Medium

- 1 ml 1000x trace metals
- 1 g Hepes
- fill up to 1 I with MiliQ-water

The medium has to be autoclaved afterwards

Date:	Signed and understood by:
Date:	Witnessed and understood by:

 Author: Carina Gude
 created: 21.06.2018 08:18

 Entry 35/61: 1x SD medium
 updated: 21.06.2018 08:24

In Project: Solutions

With tags: for SD, SD medium, S.cerevisiae

1x SD medium

- 5ml SD medium 10%
- 1ml Amino acid stock solutions (Histidine, Tryptophan, Uracil, Leucine)
- 50ml H2O

Date:	Signed and understood by:
Date:	Witnessed and understood by:

 Author: Carina Gude
 created: 21.06.2018 08:53

 Entry 36/61: 1x SD medium
 updated: 21.06.2018 08:55

In Project: Solutions
With tags: SD medium

1x SD medium:

- 30ml SD Medium 10x
- 6ml Amino acid stock solutions (Histidine, Tryptophan, Uracil, Leucine)
- 300ml sterile MiliQ

Date:	Signed and understood by:
Date:	Witnessed and understood by:

Author: Sarah Seyffert created: 28.06.2018 13:21 updated: 28.06.2018 13:57 updated: 28.06.2018 13:57

In Project: Solutions

With tags: antibiotic, kanamycin, chloramphenicol, sterile filtration

Kanamycin:

We have prepared Kanamycin stock solution with a concentration of 10 mg/mL. Kanamycin was solved in H₂O (MilliQ). The solution was sterilized by sterile filtration and stored at -20 °C.--> 40 mL with 400 mg Kanamycin

Chloramphenicol:

We have prepared Chloramphenicol stock solution with a concentration of 50 mg/mL. Chloramphenicol was solved in 100% EtOH. The solution was sterilized by sterile filtration and stored at -20°C.--> 40 mL with 4000 mg Chloramphenicol

Date:	Signed and understood by:
Date:	Witnessed and understood by:

Author: Susanne Vollmer
Entry 38/61: refill 1l 1x TAE
In Project: Solutions
With tags: TAE

refill 1L 1xTAE with 20ml 50xTAE and 980ml milli Q

Date: Signed and understood by:

Witnessed and understood by:

Author: Sarah Seyffert		created: 13.07.2018 1	
Entry 39/61: No entry title ye	t	updated: 13.07.2018 1	6:46
In Project: Solutions			
With tags: TAE			
Refill of 2 bottles of 1x TAE-t 20ml 50TAE-buffer fill up to 1L with MiliQ	ouffer		
Date:	Signed and understood by:		

Witnessed and understood by:

Date:

Author: Susanne Vollmer Entry 40/61: ampicillin stock

In Project: Solutions

With tags: ampicillin, stock

created: 20.07.2018 18:07

updated: 20.07.2018 18:12

 $made\ 4\ falcon\ tubes\ with\ each\ 20\ ml\ amicillin\ stock\ solution\ (10mg/ml),\ with\ following\ steps:$

- weighing out 200mg amicillin for each tube and fill up with water-> wear gloves and a protecting face mask
- sterile Filtration
- store at -20 °C

Date:	Signed and understood by:
Date:	Witnessed and understood by:

Author: Susanne Vollmer Entry 41/61: refill 1x TAE In Project: Solutions With tags: TAE		created: 23.07.2018 14:16 updated: 23.07.2018 14:17
Refill 1I 1xTAE with 20ml 50:	x TAE and 980ml milli Q water	
Date:	Signed and understood by:	
Date:	Witnessed and understood by:	

Author: Susanne Vollmer
Entry 42/61: refill of 1x TAE
In Project: Solutions
With tags: TAE

Refill 2l 1xTAE with each 20ml 50x TAE and 980ml milli Q water

Date:

Signed and understood by:

Witnessed and understood by:

Author: Susanne Vollmer created: 01.08.2018 18:12
Entry 43/61: X-Gal stocksolution updated: 01.08.2018 18:13

In Project: Solutions
With tags: X-gal, DMSO

Preparation of a X-gal solution 20mg/ml

- perpare a with aluminium foil coated tube(x-gal is light sensitive)
- weigh 60 mg X-gal powder
- add in a tube
- fill in 3 ml DMSO sterile
- mix
- sterile filtration
- store at -20°C

Date:	Signed and understood by:
Date:	Witnessed and understood by:

Author: Susanne Vollmer Entry 44/61: DMSO sterile filtration for stock solution In Project: Solutions No tags associated		created: 02.08.2018 16:11 updated: 02.08.2018 16:13
sterile filtration of 20 ml Dim store at room temperature	ethylsulfoxide (DMSO)	
Date:	Signed and understood by:	
Date:	Witnessed and understood by:	

Author: Carina Gude
Entry 45/61: TAE buffer
In Project: Solutions
With tags: TAE

Refill of 1 bottle of 1x TAE-buffer

20ml 50TAE-buffer

fill up to 1L with MiliQ

Date:

Signed and understood by:

Witnessed and understood by:

Date:

Author: Sarah Seyffert Entry 47/61: 1x M2 Media In Project: Solutions

With tags: M2-Medium, X-gal

created: 09.08.2018 11:57 updated: 09.08.2018 15:45

1x M2 was made from the 100x M2 stock

- 10 ml 100x M2 (sterile)
- 10 ml 100x K₂HPO₄ (82g/l)
- 1 ml 1000x Na₂CO₃ (sterile)
- 1 ml 1000x trace metals (sterile)
- 1 g Hepes
- fill up to 1 I with MiliQ-water

The medium has to be autoclaved afterwards

Preparation of a X-gal solution 20mg/ml

- perpare a with aluminium foil coated tube(x-gal is light sensitive)
- weigh 140 mg X-gal powder in a tube
- fill in 7 ml DMSO sterile
- mix
- sterile filtration of the sultion

store at -20°C

Date:	Signed and understood by:
Date:	Witnessed and understood by:

Author: Susanne Vollmer
Entry 48/61: refill of 1x TAE
In Project: Solutions
With tags: TAE

Refill of 1 L 1x TAE with 20 ml 50x TAE and 980 ml Milli Q

Date: Signed and understood by:

Witnessed and understood by:

Author: Sarah Seyffert

Entry 49/61: M2
In Project: Solutions
With tags: M2-Medium

After autoclaving the M2-media 1 mL 1000x Fe(III) ammonium citrate and 200 µL 5000x CuSO₄ were added.

Date: Signed and understood by:

Date: Witnessed and understood by:

Author: Susanne Vollmer
Entry 50/61: refill of 1xTAE
In Project: Solutions
With tags: TAE

refill of 1L 1xTAE with 20ml 50xTAE and 980ml milli Q

Date: Signed and understood by:

Witnessed and understood by:

Author: Katharina Polzen
Entry 51/61: -URA plates
In Project: Solutions
With tags: Ura, plates, yeast

Poured 3 plates -URA SD plates using 5 mL SD medium and 1ml each of LEU, HIS, TRP and fill up to 50 mL 2% water agar.

Date: Signed and understood by:

Witnessed and understood by:

Date:

Author: Katharina Polzen

Entry 52/61: Leucine
In Project: Solutions
With tags: Aminoacid, leucine

Aminoacid stock solutions for Leucine.

19 mg in 50 mL H₂0 MilliQ then sterile filtration.

Date: Signed and understood by:

Date: Witnessed and understood by:

Author: Susanne Vollmer

Entry 53/61: refill of 1x TAE
In Project: Solutions
With tags: TAE

refill of 1L 1xTAE with 20 ml 50xTAE and 980 ml milli Q

Date:

Signed and understood by:

Witnessed and understood by:

Author: Susanne Vollmer
Entry 54/61: refill of spectomycin stock solution
In Project: Solutions
With tags: spectionmycin

made new spectomycin stock with 400 mg spectomycin and 20 ml milli Q, dissolve and than sterilefiltration, stored at -20 °C

Date: Signed and understood by:

Witnessed and understood by:

Author: Susanne Vollmer

Entry 55/61: dNTP solution

In Project: Solutions

With tags: dNTP

preparing dNTP mix with 10 µl of each dNTP (100mM stock, dATP, dTTP, dGTP, dCTP, from Sigma Aldrich) and 60 µl of milli Q stored at -20°C

Date: Signed and understood by:

Witnessed and understood by:

Author: Ylenia Longo

Entry 56/61: IPTG

In Project: Solutions

created: 31.08.2018 10:12
updated: 31.08.2018 10:13

An IPTG stock solution has been prepared with a final concentration of 0.1M.

With tags: IPTG

For this purpose 0.6g of IPTG were added to 25mL of ddH20 and the tube was inverted until the IPTG was completely dissolved. The final stock solution is sterile filtrated, aliquoted and stored at -20°C.

Date:	Signed and understood by:
Date:	Witnessed and understood by:

Author: Ylenia Longo
Entry 57/61: X-gal in DMSO

created: 31.08.2018 10:13 updated: 31.08.2018 10:14

In Project: Solutions With tags: xgal

A X-gal solution with a final concentration of 20mg/ml was prepared.

For this purpose 200mg of X-gal were dissolved in 10mL DMSO in a 15mL falcon tube. Afterwards the falcon was vortexted until the powder is completely dissolved.

The stock solution was aliquoted in 1.5mL tubes, wrapped with aluminium foil and stored at -20°C.

Date:	Signed and understood by:
Date:	Witnessed and understood by:

Author: Carina Gude

Entry 58/61: 1x BG11 and 2xBG11

In Project: Solutions

With tags: BG-11, 1xBG11, 2xBG11

created: 31.08.2018 11:48 updated: 31.08.2018 13:51

1x BG11

- Fill 1 L bottle with 500 mL ultra pure water.
- Add stock solutions:
 - 1. 10ml 100x BG11 Stock
 - 2. 1 ml 1000x Na₂CO₃
 - 3. 1 ml 1000x K_2HPO_4 x 3 H_2O
 - 4. 10 ml 100x TES-buffer
 - 5. 1 ml 1000x Trace Metal Mix
- Add ultra pure water to 1 L.
- Autoclave.
- fill up to 1 L with nuclease-free water (milliQ)

Autoclave it directly

Fe(III) and CuSO4 still need to be added.

2xBG11

- 1 500 ml bottles was filled with 250 ml ultra pure water
 Then
 - 10ml 100x BG11 stock
 - 1ml 1000x Na₂CO₃
 - 1ml 1000x K₂HPO₄ x 3 H₂O
 - 10ml 100x TES-buffer, pH = 8.0
 - 1ml 1000x Trace Metal Mix
- was added to each bottle.
- Ultra pure water was added to 500ml

Autoclave

Fe(III) and CuSO4 still need to badded

Date:	Signed and understood by:
Date:	Witnessed and understood by:

Author: Sarah Seyffert
Entry 60/61: dNTP
In Project: Solutions
With tags: dNTP

Preparing dNTP mix with 10 µl of each dNTP (100mM stock, dATP, dTTP, dGTP, dCTP, from Sigma Aldrich) and 60 µl of milli Q stored at -20°C

Date: Signed and understood by:

Date: Witnessed and understood by:

Author: Susanne Vollmer

Entry 61/61: prepare M2 media with phosphite

In Project: Solutions

With tags: M2-Medium, H3PO3

created: 04.10.2018 20:33

updated: 04.10.2018 20:43

To measure if the ptxD conctract work, preparation of phosphite but not phosphorus containing M2 media:

- 500 μl of 100x Stock M2
- 50 μl 1000x Stock Na₂CO₃
- $50\ \mu l$ of 1000x Stock of trace metals
- 500 μl of 100x Stock phosporous acid (H₃PO₃)
- fill up to 50 ml with milli Q

pH adjustment at nearly 5 (4,95) using KOH and HCL

autoclave

when using it for cyanobacteria add 1 ml Fe(III) and 200 μl CuSO4 per Liter

preparation of 10x Stock of phosphorous acid:

- add 0,40995g phosporous acid (H_3PO_3) to a falcon tube
- fill up to 50 ml with milli Q
- sterile filtration

Date:	Signed and understood by:
Date:	Witnessed and understood by: