



LOG_SAMPLES_ 2024 04 02 STATION- 1 2 0 _W-LAB-142-1

OPERATOR(S) Eric

| Depth Replicate | S320 Cryo-5mL LN2 #1 | S023 Cryo-5mL LN2 #1 | Filtration Volume (Litres) | Filtration Duration (minutes) | S<02 Cryo-5mL FRG +4°C | Filtration Volume (Litres) |
|-----------------|--|--|---|---|--|---|
| Z00 R01 m | | | <input type="checkbox"/> 20L <u>16</u> L | <input checked="" type="checkbox"/> 15 min. min. | | <input type="checkbox"/> 20L <u>16</u> L |
| Z00 R02 m | | | <input type="checkbox"/> 20L <u>16</u> L | <input checked="" type="checkbox"/> 15 min. min. | | <input type="checkbox"/> 20L <u>16</u> L |
| Z02 R01 m | ###-Z02 S320-1 | ###-Z02 S023 | <input type="checkbox"/> 20L L | <input type="checkbox"/> 15 min. min. | ###-Z02 S<02 | <input type="checkbox"/> 20L L |
| Z02 R02 m | ###-Z02 S320-2 | ###-Z02 S023-2 | <input type="checkbox"/> 20L L | <input type="checkbox"/> 15 min. min. | ###-Z02 S<02-2 | <input type="checkbox"/> 20L L |
| Depth Replicate | P320 Cryo-5mL LN2 #1 | P023 Cryo-5mL LN2 #1 | Filtration Volume (Litres) | Filtration Duration (minutes) | < 0.2 µm | |
| Z00 m | | | <input type="checkbox"/> 50L <u>48</u> L | <input checked="" type="checkbox"/> 60 min. min. | => Collect filtrate for SS protocols onland : VV<0.2, qPCR<0.2 | |
| Z02 m | ###-Z02 P320 | ###-Z02 P023 | <input type="checkbox"/> 50L L | <input type="checkbox"/> 60 min. min. | | |
| Depth Replicate | S320-L 15mL falcon -20°C + 10 mL Nucleoprotect | S023-L 15mL falcon -20°C + 10 mL Nucleoprotect | Filtration Volume (Litres) | Filtration Duration (minutes) | | |
| Z00 m | | | <input type="checkbox"/> 50L <u>48</u> L | <input checked="" type="checkbox"/> 60 min. min. | | |
| Z02 m | ###-Z02 S320-L | ###-Z02 S023-L | <input type="checkbox"/> 50L L | <input type="checkbox"/> 60 min. min. | | |



0 5 1 50 10 1805
2103

| Depth Replicate | COMMENTS S### |
|-----------------|---------------|
| Z00 R01 m | |
| Z00 R02 m | |
| Z02 R01 m | |
| Z02 R02 m | |

| Depth | COMMENTS P### |
|----------|---------------|
| Z00 m | X |
| Z02 m | 20 |

| Depth | COMMENTS S###L |
|----------|----------------|
| Z00 m | |
| Z02 m | X 20 |



| Depth | COMMENTS TOC | COMMENTS DICTA | COMMENTS SAL |
|-----------------|--------------------|----------------|--------------|
| Z00 m | | | |
| Z02 m | | | |
| Depth Replicate | COMMENTS CDOM/FDOM | COMMENTS DOC | COMMENTS NUT |
| Z00 R01 m | | | |
| Z00 R02 m | | | |
| Z00 R03 m | | | |
| Z02 R01 m | | | |
| Z02 R02 m | | | |
| Z02 R03 m | | | |
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YYYY MM DD # # #
 LOG_SAMPLES_ 2024 04 02 _STATION- 1 2 0 _TARDIS-SCP
 OPERATOR(S) Vanessa Paul

| Depth | PPL Falcon-50mL FRZ -20°C | Filtration Volume (Litres) | Filtration Duration (minutes) | HLB Falcon-50mL FRZ -20°C | Filtration Volume (Litres) | Filtration Duration (minutes) |
|-----------------|-----------------------------|--|--|-----------------------------|--|--|
| Z00 R01 | | <input checked="" type="checkbox"/> 2L | <input checked="" type="checkbox"/> 120 min. | | <input checked="" type="checkbox"/> 2L | <input checked="" type="checkbox"/> 120 min. |
| m | | L | min. | | L | min. |
| Z00 R02 | | <input checked="" type="checkbox"/> 2L | <input checked="" type="checkbox"/> 120 min. | | <input checked="" type="checkbox"/> 2L | <input checked="" type="checkbox"/> 120 min. |
| m | | L | min. | | L | min. |
| Z00 R03 | | <input checked="" type="checkbox"/> 2L | <input checked="" type="checkbox"/> 120 min. | | <input checked="" type="checkbox"/> 2L | <input checked="" type="checkbox"/> 120 min. |
| m | | L | min. | | L | min. |
| Z00 R04 | | <input checked="" type="checkbox"/> 2L | <input checked="" type="checkbox"/> 120 min. | | <input checked="" type="checkbox"/> 2L | <input checked="" type="checkbox"/> 120 min. |
| m | | L | min. | | L | min. |
| Z02 R01 | ###-Z02 PPL-1 | <input type="checkbox"/> 2L | <input type="checkbox"/> 120 min. | ###-Z02 HLB-1 | <input type="checkbox"/> 2L | <input type="checkbox"/> 120 min. |
| m | | L | min. | | L | min. |
| Z02 R02 | ###-Z02 PPL-2 | <input type="checkbox"/> 2L | <input type="checkbox"/> 120 min. | ###-Z02 HLB-2 | <input type="checkbox"/> 2L | <input type="checkbox"/> 120 min. |
| m | | L | min. | | L | min. |
| Z02 R03 | ###-Z02 PPL-3 | <input type="checkbox"/> 2L | <input type="checkbox"/> 120 min. | ###-Z02 HLB-3 | <input type="checkbox"/> 2L | <input type="checkbox"/> 120 min. |
| m | | L | min. | | L | min. |
| Z02 R04 | ###-Z02 PPL-4 | <input type="checkbox"/> 2L | <input type="checkbox"/> 120 min. | ###-Z02 HLB-4 | <input type="checkbox"/> 2L | <input type="checkbox"/> 120 min. |
| m | | L | min. | | L | min. |
| Depth Replicate | MB320 50mL-Falcon FRZ -20°C | Filtration Volume (Litres) | Filtration Duration (minutes) | MB033 50mL-Falcon FRZ -20°C | Filtration Volume (Litres) | Filtration Duration (minutes) |
| Z00 | | <input type="checkbox"/> 16L | <input checked="" type="checkbox"/> 30 min. | | <input type="checkbox"/> 16L | <input checked="" type="checkbox"/> 30 min. |
| m | | 16.5 L | min. | | 16.5 L | min. |
| Z02 | ###-Z02 MB320 | <input type="checkbox"/> 16L | <input type="checkbox"/> 30 min. | ###-Z02 MB033 | <input type="checkbox"/> 16L | <input type="checkbox"/> 30 min. |
| m | | L | min. | | L | min. |



| Depth | | COMMENTS |
|-------|----------|--|
| Z00 | R01 m | |
| Z00 | R02 m | |
| Z00 | R03 m | |
| Z00 | R04 m | |
| Z02 | R01 m | |
| Z02 | R02 m | |
| Z02 | R03 m | |
| Z02 | R04 m | |
| | | Dunij stay in Barcelona system was flushed with Etoh and it took 2 days although intense flushing & cleaning to remove Etoh smell. To the start of this station empty smelled neutral. |



| Depth | Replicates | ○ CP-G Cryo-5mL LN2 #1 | ● SG Cryo-5mL LN2 #1 | ● FC-P Cryo-2mL LN2 #3 | ● FC-G Cryo-2mL LN2 #3 | | |
|-----------------|-------------------|--------------------------------|---|------------------------------|---|---------------------------------|---------------------------------|
| Z02 | R01 m | ###-Z02 CP-G-1 | ###-Z02 SG-1 | ###-Z02 FC-P-1 | ###-Z02 FC-G-1 | | |
| Z02 | R02 m | ###-Z02 CP-G-2 | ###-Z02 SG-2 | ###-Z02 FC-P-2 | ###-Z02 FC-G-2 | | |
| Z02 | R03 m | ###-Z02 CP-G-3 | Glycine- betaine prealiquot at 4°C | PFA prealiquot at -20°C | Glutaraldehyde prealiquot at - 20°C | | |
| | Prealiquot | Glycerol prealiquot - RT | | | | | |
| | | | | | DGAS 12 mL exetainer +4°C | DGAS 12 mL exetainer +4°C | DGAS 12 mL exetainer +4°C |
| | | | | | ###-Z02 DGAS-1 | ###-Z02 DGAS-2 | ###-Z02 DGAS-3 |
| | | | | | | | |
| | | | | | | | |
| | | | | | + 100 µL ZnCl ² | + 100 µL ZnCl ² | + 100 µL ZnCl ² |
| COMMENTS | | | | | | | |



LOG_SAMPLES_

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| YYYY | MM | DD |
| 2024 | 04 | 02 |

_STATION-

| | | |
|---|---|---|
| # | # | # |
| 1 | 2 | 0 |

 _S-LAB-DECKNET-5

OPERATOR(S)

| |
|------|
| ANNA |
|------|

| Depth | Volume filtered (Litres) | | | | |
|-------|-------------------------------|--|--|--|--|
| Z00 | <input type="checkbox"/> 10 L | | | | |
| m | 9.2 L | | | | |
| Z02 | <input type="checkbox"/> 10 L | | | | |
| m | L | | | | |

| Depth | FM5-1* Falcon-15mL FRG +4°C | FM5-2* Falcon-15mL FRG +4°C | SG5-1* Cryo-5mL LN2 | SG5-2* Cryo-5mL LN2 |
|-------|-----------------------------------|-----------------------------------|---------------------------|---------------------------|
| Z00 | | | | |
| m | | | | |
| Z02 | ### Z02 FM5-1 | ### Z02 FM5-2 | ### Z02 SG5-1 | ### Z02 SG5-2 |
| m | | | | |

*pre-aliquoted 5 mL PFA/GLUT
store at -20°C

* pre-aliquoted Glycine betaine
store at 4°C



| Depth | | COMMENTS SG5 |
|-------|--------------|-----------------|
| Z00 | R01 m | |
| Z00 | R02 m | |

| Depth | | COMMENTS FM5 |
|-------|--------------|-----------------|
| Z00 | R01 m | |
| Z00 | R02 m | |
| | | |
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LOG_SAMPLES_ YYYY MM DD # # # _STATION- # # # _PPN2-PPN2exe

OPERATOR(S) ANNA

| Depth | Spikes | 13C-DIC time (UTC) in -20°C | 15N-DIC time (UTC) in gaz |
|----------|--------|-----------------------------|---------------------------|
| Z00 m | 1 | 08 : 45 | 08 : 49 |
| Z00 m | 2 | 08 : 45 | 08 : 50 |
| Z00 m | 3 | 08 : 45 | 08 : 52 |

| Depth | Natural abundance – T0 | NAT Filter in alu -20°C | Filtered volume (mL) | Filtration time – start | Filtration time – end |
|----------|------------------------|-------------------------|----------------------|-------------------------|-----------------------|
| Z00 m | NAT-1 | | 1800 | 8 8 : 35 | 9 : 30 |
| Z00 m | NAT-2 | | 1670 | 8 : 35 | 9 : 30 |
| Z00 m | NAT-3 | | 1800 | 8 : 35 | 9 : 30 |

24h (+/- 30min) later

Filtration < 40min

| Depth | Incubated bottle | PPN2 Filter in alu -20°C | PPN2exe* Exetainer-12mL +4°C | Filtration volume (mL) | Filtration time – start | Filtration time – end |
|----------|------------------|--------------------------|------------------------------|------------------------|-------------------------|-----------------------|
| Z00 m | PPN2-1 | | | 2000 | 09 : 25 | 10 : 10 |
| Z00 m | PPN2-2 | | | 1870 | 09 : 25 | 10 : 15 |
| Z00 m | PPN2-3 | | | ~ 1000 ? | 09 : 25 | 09 : 45 |
| | BLANK | | * +100 µL ZnCl | | | → see comments |



Depth

COMMENTS

NB : ~~There~~ Bottle 3 (PPN2-3) ~~was not used~~ lost some volume
(The "trap-plain" tubing system didn't work and
it spilled out of The tulip)

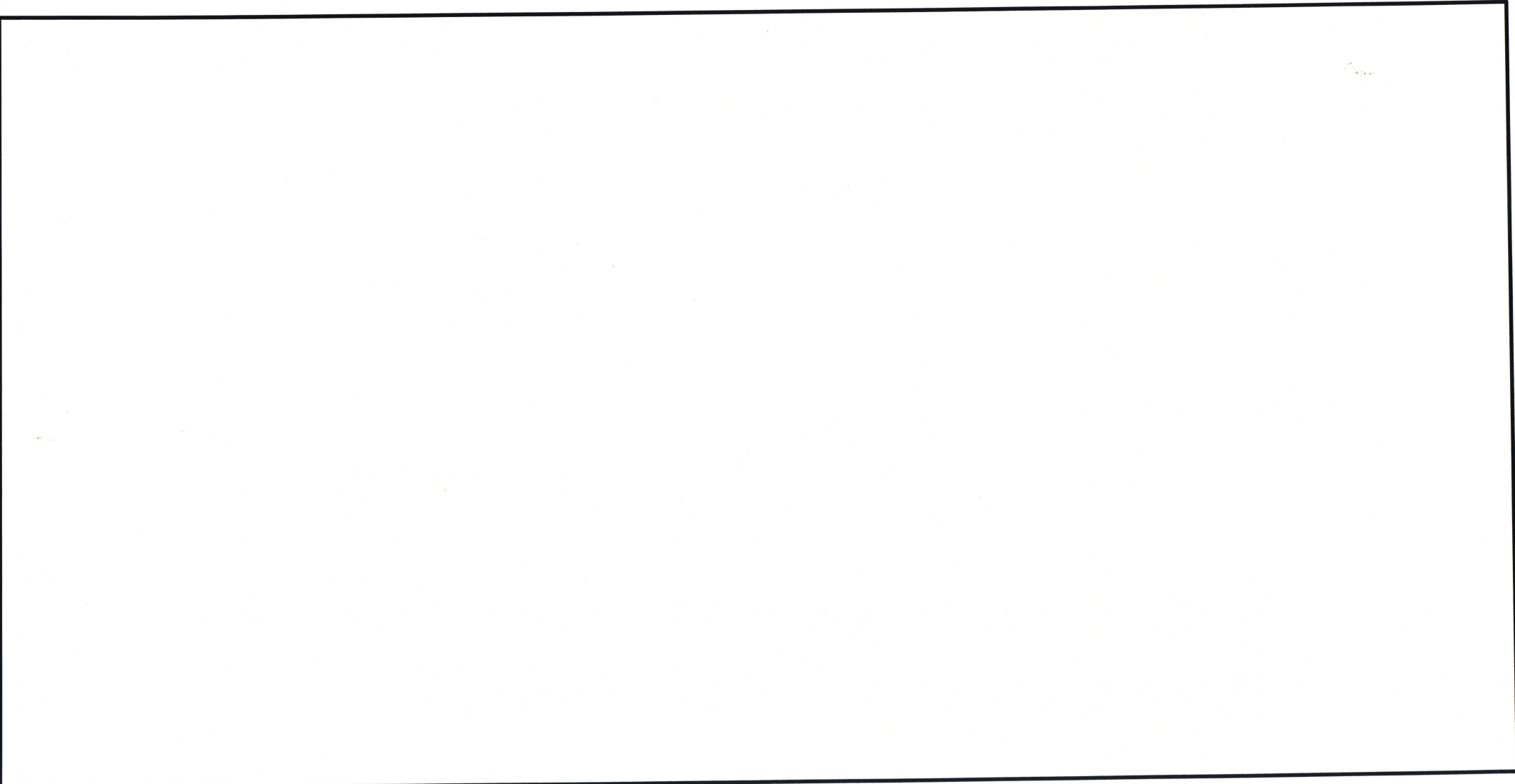


YYYY MM DD HH MM # # # OPERATOR(S) INITIALS
 2024 04 01 10 36 _STATION- 119 _SML ANNA

| Water Collection | | Number of dips: 13 | | Volume Collected (L) 0.500 | | |
|------------------|---|--------------------|-------------|----------------------------|-------------------------------------|--|
| Protocol | Quantity, Container Storage | Replicate 1 | Replicate 2 | Replicate 3 | Comments | |
| SML-FC | Cryotube (2ml) 1.5ml sample + 30 µl Glute 25% LN2 (-80°C) | | | | NB wavy sea = 20 knots ; taken @ | |
| SML-CP | Cryotube (5ml) 3ml sample + 750 µl Glycerol RT (-80°C) | | | | 42° 29.57'N ← 3° 11.09'E | |
| SML-320 | Cryotube (2ml) Filter 3µm PC LN2 (-80°C) | | | | 150 mL | |
| SML-023 | Cryotube (2ml) Filter 0.22µm PC LN2 (-80°C) | | | | 150 mL | |

YYYY MM DD HH MM # # # OPERATOR(S) INITIALS
 2024 04 02 10 45 _STATION- 120 _SML ANNA O.

| Water Collection | | Number of dips: 13 | | Volume Collected (L) 0.600 | | |
|------------------|---|--------------------|-------------|----------------------------|----------|--|
| Protocol | Quantity, Container Storage | Replicate 1 | Replicate 2 | Replicate 3 | Comments | |
| SML-FC | Cryotube (2ml) 1.5ml sample + 30 µl Glute 25% LN2 (-80°C) | | | | | |
| SML-CP | Cryotube (5ml) 3ml sample + 750 µl Glycerol RT (-80°C) | | | | | |
| SML-320 | Cryotube (2ml) Filter 3µm PC LN2 (-80°C) | | | | 160 mL | |
| SML-023 | Cryotube (2ml) Filter 0.22µm PC LN2 (-80°C) | | | | 160 mL | |





YYYY MM DD # # #
 LOG_SAMPLES_ 2024 04 02 _STATION- 1 2 0 _S-LAB-25-1
 OPERATOR(S) Emmanuelle Martins

| Depth | Turbidimeter (FNU) | PM control (EVERY TWO STATIONS) | Filtration Volume (mL) | N° filtres + weight (mg) | | |
|-------|-------------------------------|--|--------------------------|----------------------------------|-------------------------------|----------------------------------|
| Z00 | 1. 1.42 2. 1.59 3. 1.49 | ###-Z00 PM-CTRL | mL | N° | | |
| m | | | | Weight | | |
| | | | | | | |
| Z02 | 1. 2. 3. | TRIPPLICATES ONCE A MONTH FOR HP | HP Cryo-2mL LN2 #3 | Filtration Volume (mL) | Filtration Duration (minutes) | |
| Z00 | PA Petridish FRZ -20°C | | | Filtration Volume (mL) | Z00 R01 | <input type="checkbox"/> 30 min. |
| m | | | | 1035 mL | m | 15 min. |
| Z00 | | Z00 R02 | | <input type="checkbox"/> 30 min. | | |
| m | | m | ###-Z00 HP-2 | min. | | |
| | | Z00 R03 | | <input type="checkbox"/> 30 min. | | |
| | | m | ### Z02 HP-3 | min. | | |
| | | Z02 R01 | | <input type="checkbox"/> 30 min. | | |
| | | m | ###-Z02 HP | min. | | |
| Depth | PM Petridish FRZ -20°C | Filtration Volume (mL) | N° filtre + weight (mg) | FOI Petridish FRZ -20°C | Filtration Volume (mL) | N° filtre + weight (mg) |
| Z00 | | | N° TE 351 | | | N° TE 353 |
| m | | 1035 mL | Weight 37.492 | 112580690 | 1035 mL | Weight 37.337 |
| Z00 | | | N° TE 259 | | | N° TE 278 |
| m | | 1035 mL | Weight 36.951 | 112580691 | 1035 mL | Weight 37.569 |
| Z00 | | | N° TE 183 | | | N° TE 142 |
| m | | 1035 mL | Weight 37.167 | 112580692 | 1035 mL | Weight 37.999 |



| Depth Replicate | | COMMENTS PM | COMMENTS FOI |
|-----------------|----------|------------------|--------------|
| Z00 | R01 m | | |
| Z00 | R02 m | | |
| Z00 | R03 m | | |
| | | | |
| | | | |
| | | | |
| Depth Replicate | | COMMENTS PA - HP | |
| Z00 | m | | |
| Z02 | m | | |
| | | | |
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LOG-SAMPLES_ YYYY MM DD # # # _STATION- # # # _S-LAB-NET-20

OPERATOR(S) Emmanuelle Martins

Net 20 μ m

Decknet

Deployed at sea

SAMPLE SPLITTING # of cod-ends 1 2 Total volume 1600 mL Aliquots vol. 200 mL

PROTOCOLS Barcode Aliquot volume (mL) Filtration time Barcode Aliquot volume (mL) Filtration time

S20
Cryo-5mL
LN2 #1
Barcode: 112547294
Aliquot volume: 200 mL (1/8)
100 mL
Filtration time: 15 mn
Barcode: 112547295
Aliquot volume: 200 mL (1/8)
100 mL
Filtration time: 15 mn

FCAM20
Bottle-250mL
LIVE
Barcode: 112547298
Aliquot volume: 200 mL (1/8)

E20
Falcon-15mL
+ 15mL ETOH
FRZ -20°C
Barcode: 112580693
Aliquot volume: 200 mL (1/8)

S20-L
Falcon-5mL
FRZ -20°C
+ 5 mL
NucleoProtect
Barcode: 112580694
Aliquot volume: 200 mL (1/8)
100 mL

MB20
Vial-4mL
FRZ -20°C
Barcode: 112580695
Aliquot volume: 200 mL (1/8)

FM20
Falcon-50mL
FRG +4°C
Prealiquoted
PFA+GLUTA
store at -20°C
Barcode: 112580696
Aliquot volume: 45 mL
Barcode: 112580697
Aliquot volume: 45 mL

HG-20
Falcon-15mL
FRZ -20°C
Barcode: 112580698
810 mL



| | COMMENTS | COMMENTS |
|----------------------------------|----------|----------|
| SAMPLE SPLITTING | | |
| PROTOCOLS | | |
| S20 Cryo-5mL LN2 #1 | | |
| FCAM20 Bottle-250mL LIVE | | |
| E20 Falcon-15mL FRZ -20°C | | |
| S20-L Falcon-5mL FRZ -20°C | | |
| MB20 Vial-4mL FRZ -20°C | | |
| FM20 Falcon-50mL FRG +4°C | | |
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LOG-SAMPLES_ YYYY MM DD # # # _STATION- _S-LAB-NET-200

2024 04 02 1 2 0

OPERATOR(S) Emmanuelle Maetius

Horizontal
WPII-200

SAMPLE
SPLITTING

COD-END #1

PROTOCOLS

Barcode

Fraction of
total volume

Aliquot
Volume (mL)

F200
Bottle-250mL
+
borax/formol
RT >10°C



100%

250 mL

%

500 mL

SAMPLE
SPLITTING

COD-END #2

Total volume

1600 mL

PROTOCOLS

Barcode

Filtered
volume (mL)

Filtration time

Barcode

Filtered
volume (mL)

Filtration time

● S200
Cryo-5mL
LN2 #1



90 mL

15 min
10 min



90 mL

15 min

S200-L
Falcon-5mL
FRZ -20°C
+ 5mL Nucleo



90 mL

HG-200
Falcon-15mL
FRZ -20°C



1000 mL



| | COMMENTS | COMMENTS |
|-----------------------------------|----------|----------|
| SAMPLE SPLITTING | | |
| PROTOCOLS | | |
| F200 Bottle-250mL RT >10°C | | |
| SAMPLE SPLITTING | | |
| PROTOCOLS | | |
| S200 Cryo-5mL LN2 #1 | | |
| S200-L Falcon-5mL FRZ -20°C | | |
| | | |
| | | |
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LOG-SAMPLES_ YYYY MM DD # # # _STATION- _S-LAB-NET-680

2024 04 02 1 2 0

OPERATOR(S) Emmanuel Martins

Régent 680

| SAMPLE SPLITTING | NET TOW n° 1 | | NET TOW n° 2 | | | |
|--|---|---|--|----------------------------------|--------------------------|---------------------|
| | FLOWMETER 63 743 | 66 618 | FLOWMETER 66 618 | Total volume 68 855 | | |
| | <input checked="" type="checkbox"/> 1600 mL | | | | | |
| PROTOCOLS | Barcode | Fraction of total volume | Bottle volume (mL) | Barcode | Fraction of total volume | Aliquot Volume (mL) |
| F680 Bottle-250mL RT >10°C + Borax/Formol | | <input checked="" type="checkbox"/> 100 % | <input checked="" type="checkbox"/> 250 mL | | | |
| | | % | <input type="checkbox"/> 500 mL | | | |
| | | | | | | |
| F2000 Bottle-250mL RT >10°C + borax/formol | ### EPI F2000 | hand-picked | <input type="checkbox"/> 250 mL | | | |
| | | #ind= | <input type="checkbox"/> 500 mL | | | |
| | | | | | | |
| S680-L Falcon-5mL FRZ -20°C + 5mL Nucleoprotect | | <input checked="" type="checkbox"/> 100 % | | | | 100 mL |
| | | % | | | | |
| HG-680 Falcon-15mL FRZ -20°C | | | | | | 1500 mL |
| | | | | | | |



COMMENTS

COMMENTS

SAMPLE
 SPLITTING

PROTOCOLS

F680
 Bottle-250mL
 RT >10°C

F2000
 Bottle-250mL
 RT >10°C

S680-L
 Falcon-5mL
 FRZ -20°C