

Flow phantom

Thurs 21 Dec 2017

Agar phantom: 1.5%.

- 0.75g Agar (Fluka 05039-500g) LOT BCBM6775V
- 48 ~~50~~ ml water (milli Q)
- 1.04 ml 20% intralipid James' AS LOT MKBV4320V I141-100 ML

Microwave water in glass bottle with lid loose.

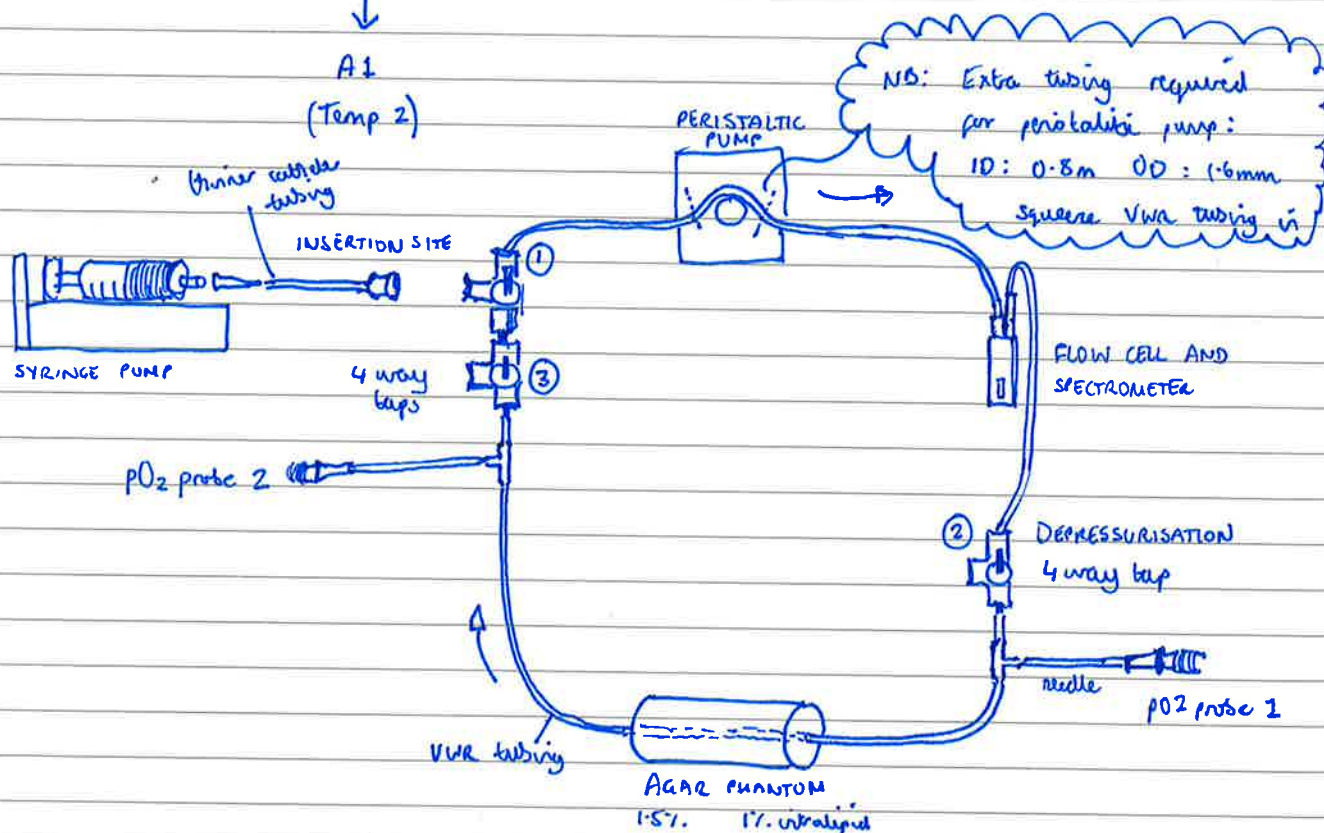
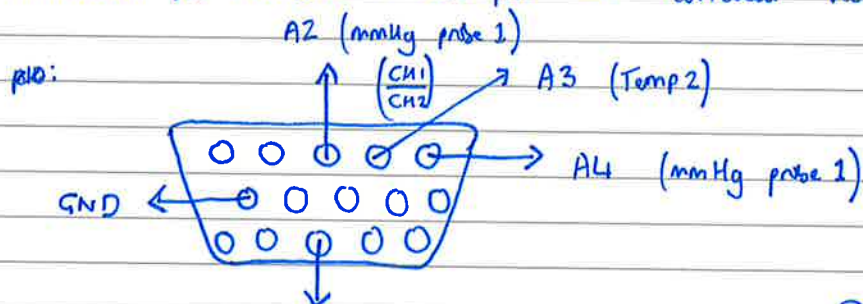
Add agar.

Boil, shake, boil.

Add intralipid.

Ideally keep on stirrer with stir bar and heating.

Connections for Arduino: see p9 — corrected here: Fri 22 Dec 2017



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- (A) Fill tubing with PBS: insert in ① ; ② \Rightarrow ③ \Rightarrow ④
- (B) Switch ① \leftrightarrow ③ to degas intervening section
- (C) Blood filled syringe: insert in ①, exits from ③. Again switch ① \leftrightarrow ③ oxygenated with H_2O_2
- (D) Sodium hydroxide in syringe pump. Pump into the system. ② \Rightarrow ③ \Rightarrow ④
50 μ L/min

1 μ L 30% H_2O_2
1.5 mg sodium hydroxide } per 0.5 mL blood
↓
3 mg/mL

0.6 g in 20 mL = 30 mg/mL (see p2)

Flow phantom - with Prexion

Weds 10 Jan 2018

Prexion: Multiview tab

Toggle \checkmark

PA Oxymetry

Display B for ultrasound

S/S 1540 m/s

Averaging 4k-2500 = 1.5 Frame rate

4k-1250 = 3

LIVE Start

Source RF: source from START time to FREEZE

750 nm, 850 nm

put tube + connector in outer hole



METAL BOX

START PO_2 1 PO_2 2
186 mmHg > 200 mmHg 24.10 C 25.7 C

17:15 Saved "Oxy1 - 100 percent" Prexion
"New experiment" Spectrometer

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