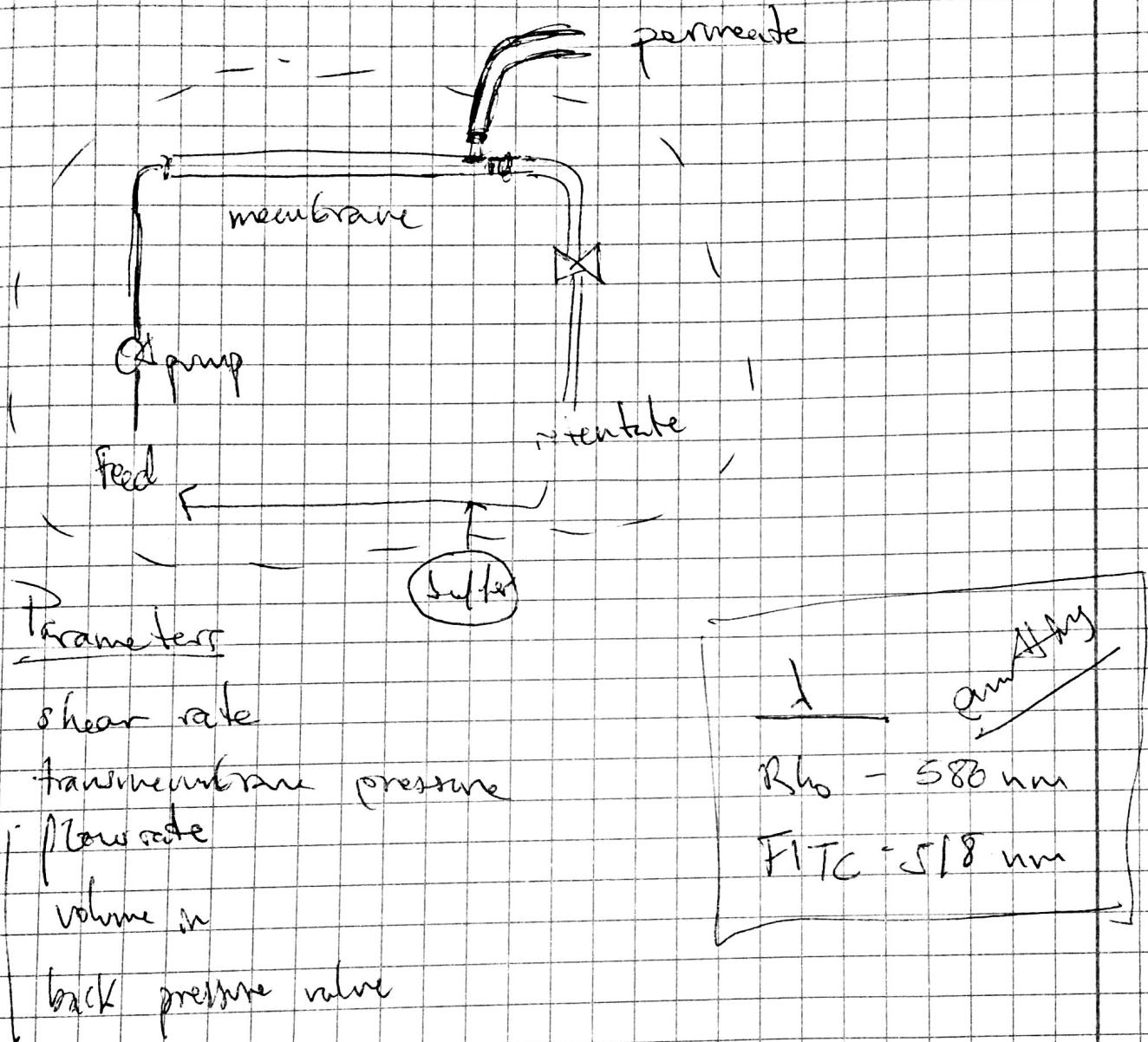


Experiment #2: Membrane Filtration

10/10



Make 1L 1x PBS solution for 10x stocks (0.1L)

Trial 1, first rinsing with 10x PBS

{ 30ml in Falcon Tube

{ 200ml reservoir (198.0g)

BV = 14.7, Q = 100ml/min, Pump in ▽

Meeting #1

- Calibration curve for RSV
- TMP vs Flux curve (dextran)
- R and DV

Lab Day #2

6/1

Aimed for \rightarrow $R: 0.0119 \text{ mg/mL}$ (Based on 130 sites per dextran) \downarrow $\text{DPITC: } 0.381 \text{ mg/mL}$
 in PBS (1:1 $\frac{\text{PBS}}{\text{DPITC}}$)

TMP curve: Dextran (no FITC) + PBS

$$[7.62 \text{ mg/mL}]$$

$$40 \text{ mL solution} = x \text{ L} + y \text{ PBS}$$

$$7.62 \text{ mg/mL} \times 40 \text{ mL} = 30.48 \text{ mg Dextran}$$

from 20mg/mL $\rightarrow 1.52 \text{ mL stock}$

Flowrates: [50, 100, 150, 200] mL/min + 38.476 mL PBS

TMP: [2; 2; 20] psig

U

J

J



initial feed

RhoB Dextran: no FITC!

6 mL PBS

6 mL Dextran

3.73 mL RhoB

FITC

RFU

R_H : 1503.1

P_H : 150.1, 129.9

On n 2964000000