PakVitae's lab in Singapore		HF membrane flux summary					HF membrane 2 flux summary			
Unit No										
Date		05.03.2019					05.03.2019			
Inlet Pressure (bar)		1	1	1	1	1	1	1	1	1
Fiber ID		Fiber-1					Fiber-2			
Flow Pattern		OUT TO IN	OUT TO IN	OUT TO IN	OUT TO IN	OUT TO IN	OUT TO IN	OUT TO IN	OUT TO IN	OUT TO IN
Number of Fibers		14	14	14	14	14	14	14	14	14
Length of Fibers (mm)		180	180	180	180	180	180	180	180	180
ID (Reading under NUS x5, NUS Lab)		15	15	15	15	15	15	15	15	15
OD (Reading under NUS x5, NUS Lab)		25	25	25	25	25	25	25	25	25
ID (mm)		0.300	0.300	0.300	0.300	0.300	0.300	0.300	0.300	0.300
OD (mm)		0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
Area of fibers (m2)		0.00396	0.00396	0.00396	0.00396	0.00396	0.00396	0.00396	0.00396	0.00396
Total Duration	Time (mins)	0	30	60	90	120	0	60	90	120
PUB water permeability (g/min)	g/m	785	507	355	303	270	589	406	352	308
Times	mins	5	5	5	5	5	5	5	5	5
PUB Water Flux (LMH-Bar)	LMH	2380	1540	1080	920	820	1790	1230	1070	930
Average Water Flux (LMH-Bar)		1350					1260			

PakVitae's lab in Singapore		HF membrane 3 flux summary					HF membrane 4 flux summary				
Unit No											
Date		10.03.2019					10.03.2019				
Inlet Pressure (bar)		1	1	1	1	1	1	1	1	1	1
Fiber ID		Fiber-3					Fiber-4				
Flow Pattern		OUT TO IN	OUT TO IN	OUT TO IN	OUT TO IN	OUT TO IN	OUT TO IN	OUT TO IN	OUT TO IN	OUT TO IN	OUT TO IN
Number of Fibers		14	14	14	14	14	14	14	14	14	14
Length of Fibers (mm)		180	180	180	180	180	180	180	180	180	180
eading under NUS x5, NUS Lab)		15	15	15	15	15	15	15	15	15	15
eading under NUS x5, NUS Lab)		25	25	25	25	25	25	25	25	25	25
ID (mm)		0.300	0.300	0.300	0.300	0.300	0.300	0.300	0.300	0.300	0.300
OD (mm)		0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
Area of fibers (m2)		0.00396	0.00396	0.00396	0.00396	0.00396	0.00396	0.00396	0.00396	0.00396	0.00396
Total Duration	ime (mins	0	30	60	90	120	0	30	60	90	120
PUB water permeab	g/m	630	545	466	392	295	596	522	443	374	286
Times	mins	5	5	5	5	5	5	5	5	5	5
PUB Water Flux (LMI	LMH	1910	1655	1415	1190	895	1810	1585	1345	1135	870
Average Water Flux (LMH-Bar)		1415					1350				

PakVitae's lab in Singapore		HF membrane 5 flux summary					HF membrane 6 flux summary				
Unit No											
Date		15.03.2019					15.03.2019				
Inlet Pressure (bar)		1	1	1	1	1	1	1	1	1	1
Fiber ID		Fiber-5					Fiber-6				
Flow Pattern		OUT TO IN	OUT TO IN	OUT TO IN	OUT TO IN	OUT TO IN	OUT TO IN	OUT TO IN	OUT TO IN	OUT TO IN	OUT TO IN
Number of Fibers		14	14	14	14	14	14	14	14	14	14
Length of Fibers (mm)		180	180	180	180	180	180	180	180	180	180
eading under NUS x5, NUS Lab)		15	15	15	15	15	15	15	15	15	15
eading under NUS x5, NUS Lab)		25	25	25	25	25	25	25	25	25	25
ID (mm)		0.300	0.300	0.300	0.300	0.300	0.300	0.300	0.300	0.300	0.300
OD (mm)		0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
Area of fibers (m2)		0.00396	0.00396	0.00396	0.00396	0.00396	0.00396	0.00396	0.00396	0.00396	0.00396
Total Duration	ime (mins	0	30	60	90	120	0	30	60	90	120
PUB water permeab	g/m	730	645	524	409	240	598	425	409	366	324
Times	mins	5	5	5	5	5	5	5	5	5	5
PUB Water Flux (LMI	LMH	2215	1955	1590	1240	730	1815	1290	1240	1110	985
Average Water Flux (LMH-Bar)		1550					1290				

PakVitae's lab in Singapore		HF membrane 7 flux summary					HF membrane 8 flux summary				
Unit No											
Date		20.03.2019					20.03.2019				
Inlet Pressure (bar)		1	1	1	1	1	1	1	1	1	1
Fiber ID		Fiber-7					Fiber-8				
Flow Pattern		OUT TO IN	OUT TO IN	OUT TO IN	OUT TO IN	OUT TO IN	OUT TO IN	OUT TO IN	OUT TO IN	OUT TO IN	OUT TO IN
Number of Fibers		14	14	14	14	14	14	14	14	14	14
Length of Fibers (mm)		180	180	180	180	180	180	180	180	180	180
eading under NUS x5, NUS Lab)		15	15	15	15	15	15	15	15	15	15
eading under NUS x5, NUS Lab)		25	25	25	25	25	25	25	25	25	25
ID (mm)		0.300	0.300	0.300	0.300	0.300	0.300	0.300	0.300	0.300	0.300
OD (mm)		0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
Area of fibers (m2)		0.00396	0.00396	0.00396	0.00396	0.00396	0.00396	0.00396	0.00396	0.00396	0.00396
Total Duration	Time (mins	0	30	60	90	120	0	30	60	90	120
PUB water permeab	g/m	643	518	416	372	312	707	556	416	326	251
Times	mins	5	5	5	5	5	5	5	5	5	5
PUB Water Flux (LMI	LMH	1950	1570	1260	1130	945	2140	1690	1260	990	760
Average Water Flux (LMH-Bar)				1370					1360		

PakVitae's lab in Singapore		HF membrane 9 flux summary					HF membrane 10 flux summary				
Unit No											
Date		25.03.2019					25.03.2019				
Inlet Pressure (bar)		1	1	1	1	1	1	1	1	1	1
Fiber ID		Fiber-9					Fiber-10				
Flow Pattern		OUT TO IN	OUT TO IN	OUT TO IN	OUT TO IN	OUT TO IN	OUT TO IN	OUT TO IN	OUT TO IN	OUT TO IN	OUT TO IN
Number of Fibers		14	14	14	14	14	14	14	14	14	14
Length of Fibers (mm)		180	180	180	180	180	180	180	180	180	180
eading under NUS x5, NUS Lab)		15	15	15	15	15	15	15	15	15	15
eading under NUS x5, NUS Lab)		25	25	25	25	25	25	25	25	25	25
ID (mm)		0.300	0.300	0.300	0.300	0.300	0.300	0.300	0.300	0.300	0.300
OD (mm)		0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
Area of fibers (m2)		0.00396	0.00396	0.00396	0.00396	0.00396	0.00396	0.00396	0.00396	0.00396	0.00396
Total Duration	Time (mins	0	30	60	90	120	0	30	60	90	120
PUB water permeab	g/m	784	406	354	303	275	674	515	364	305	292
Times	mins	5	5	5	5	5	5	5	5	5	5
PUB Water Flux (LMI	LMH	2370	1230	1070	920	830	2040	1560	1100	920	890
Average Water Flux (LMH-Bar)				1290					1300		

Table 2 provides a summary of the Pure Water Flux established over 5-minute intervals over a 120 minute period for each of the membranes. The results are also charted in Figure 8

Table 2:

Table 2 provides a summary of the Pure Water Flux established over 5-minute intervals over a 120 minute period for each of the membranes. The results are also charted in Figure 8