

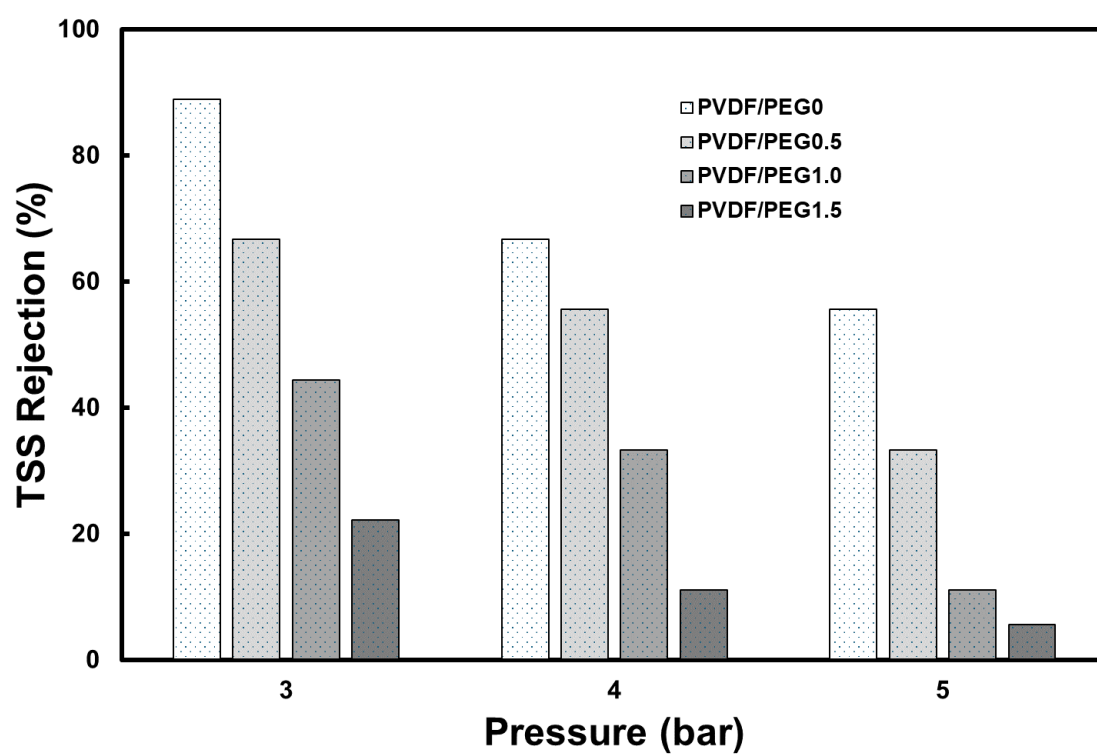


Figure 9 The effect of PVDF/PEG mass fraction and pressure on TSS rejection in the UF process

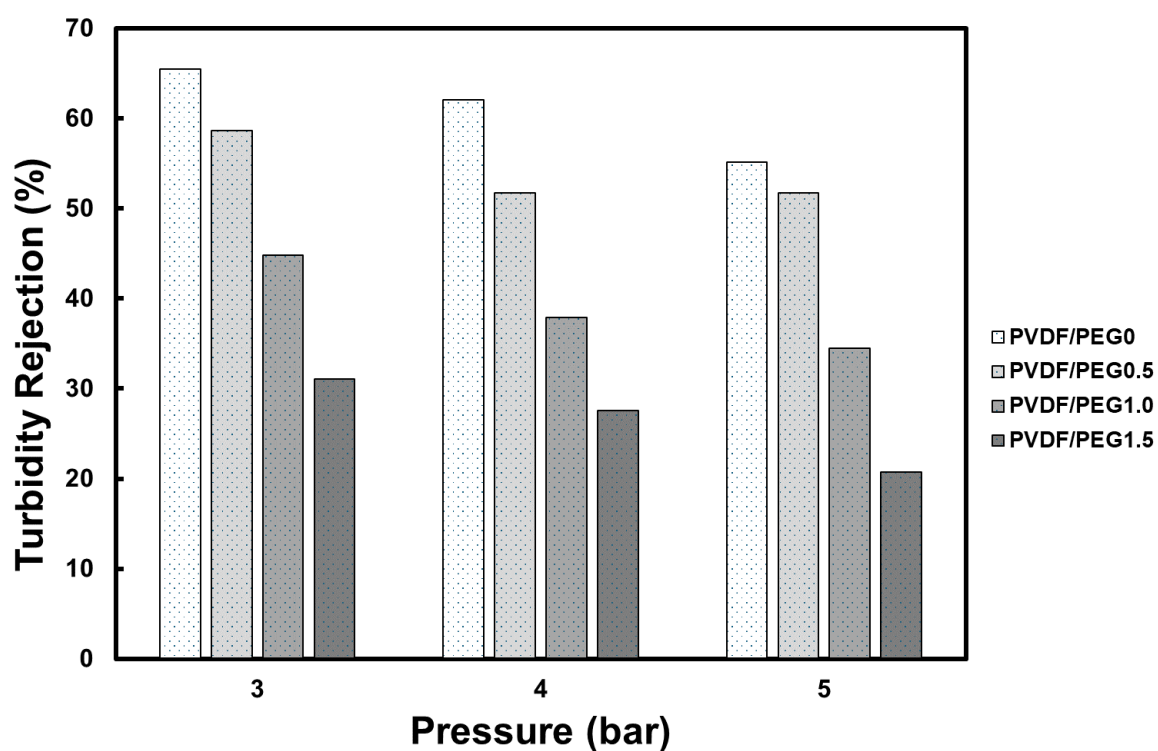


Figure 10 The effect of PVDF/PEG mass fraction and pressure on turbidity rejection in the UF process

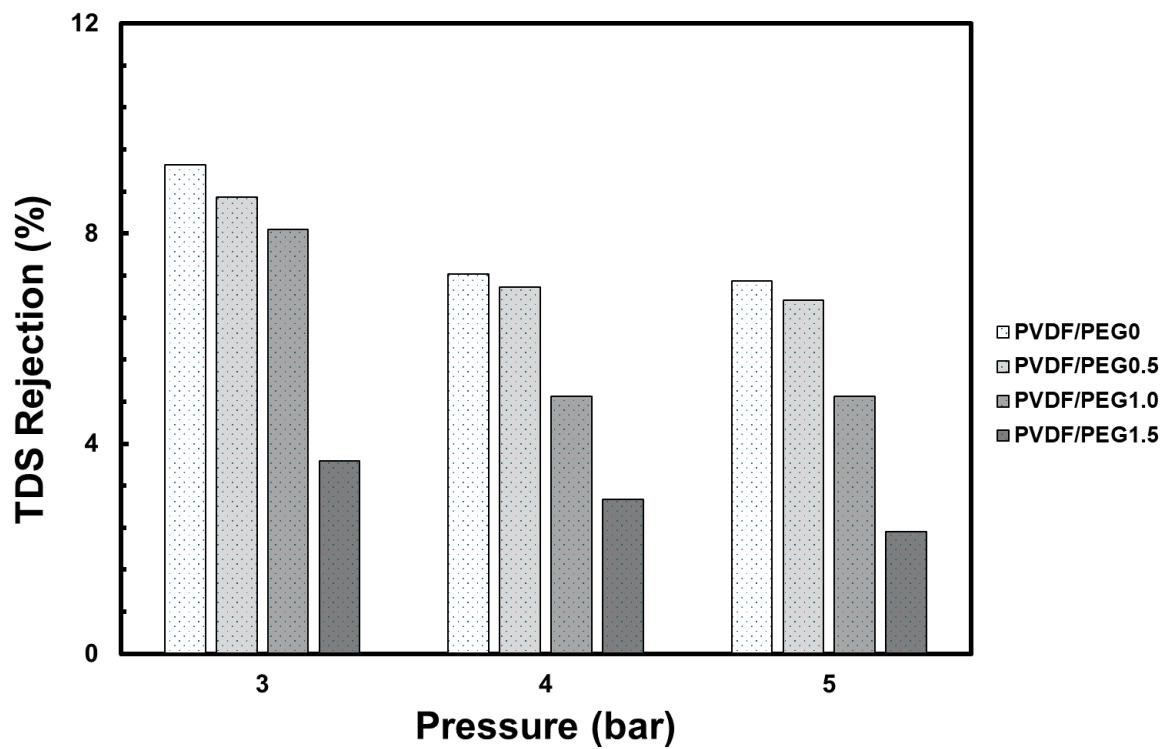


Figure 11 The effect of PVDF/PEG mass fraction and pressure on TDS rejection in the UF process

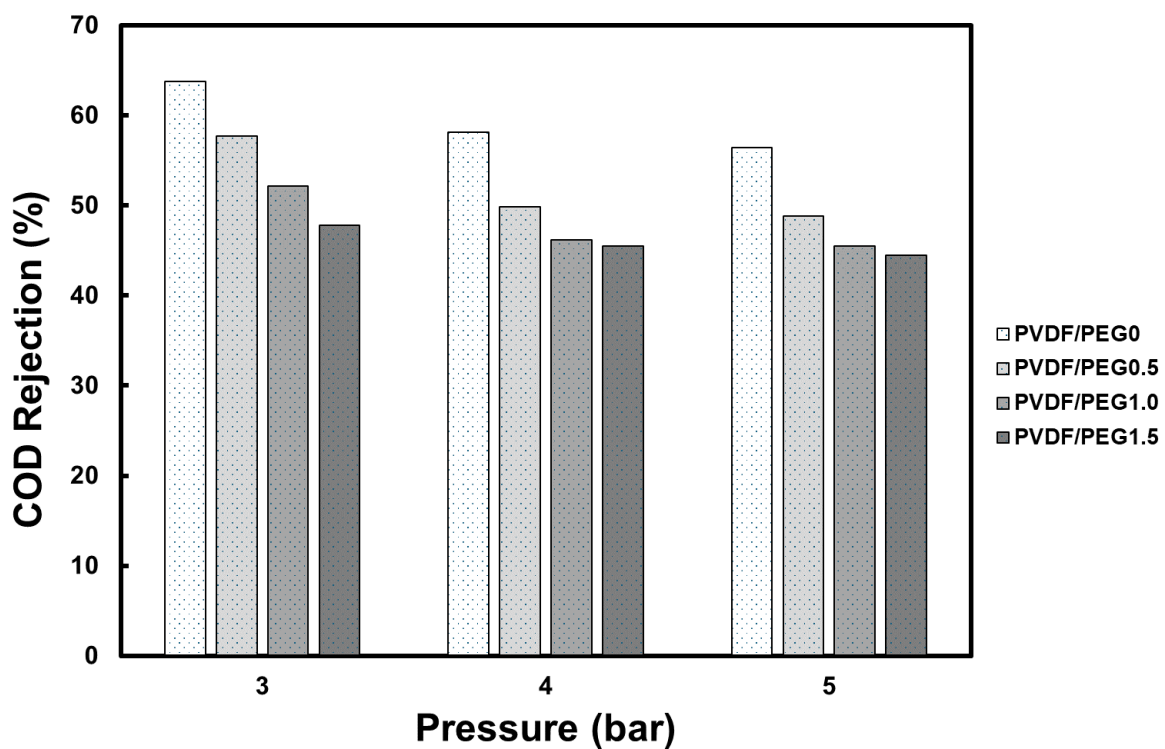


Figure 12 The effect of PVDF/PEG mass fraction and pressure on COD rejection in the UF process

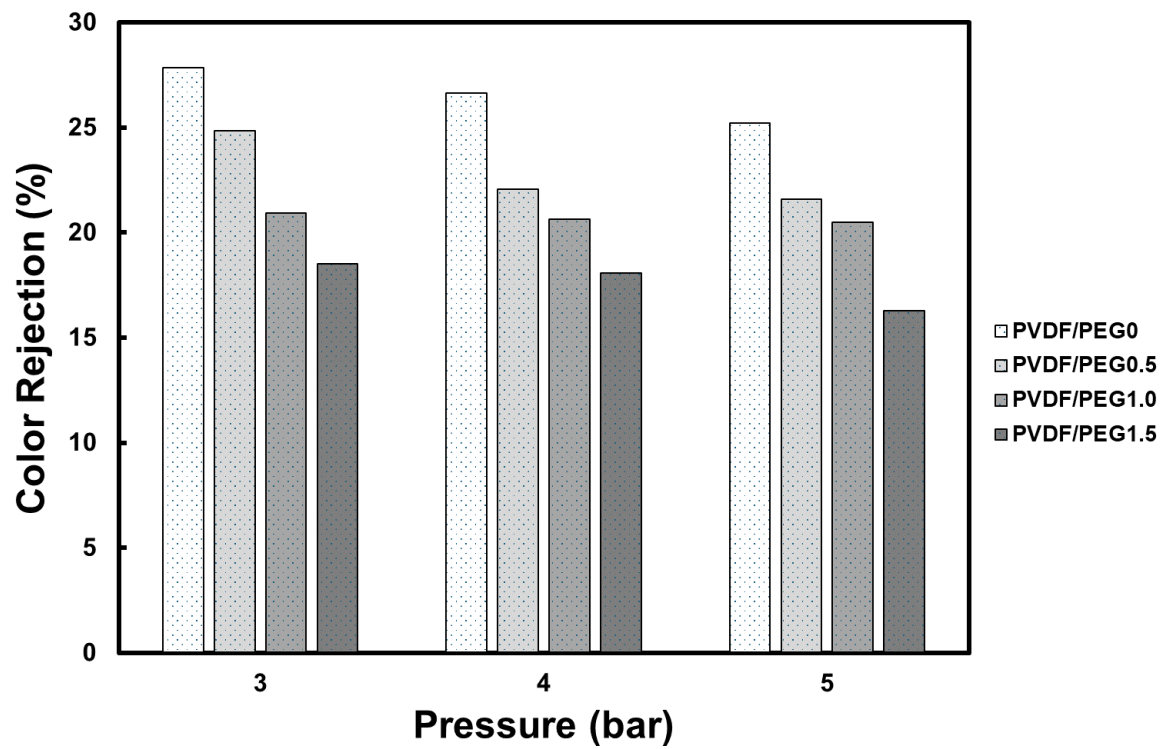


Figure 13 The effect of PVDF/PEG mass fraction and pressure on color rejection in the UF process

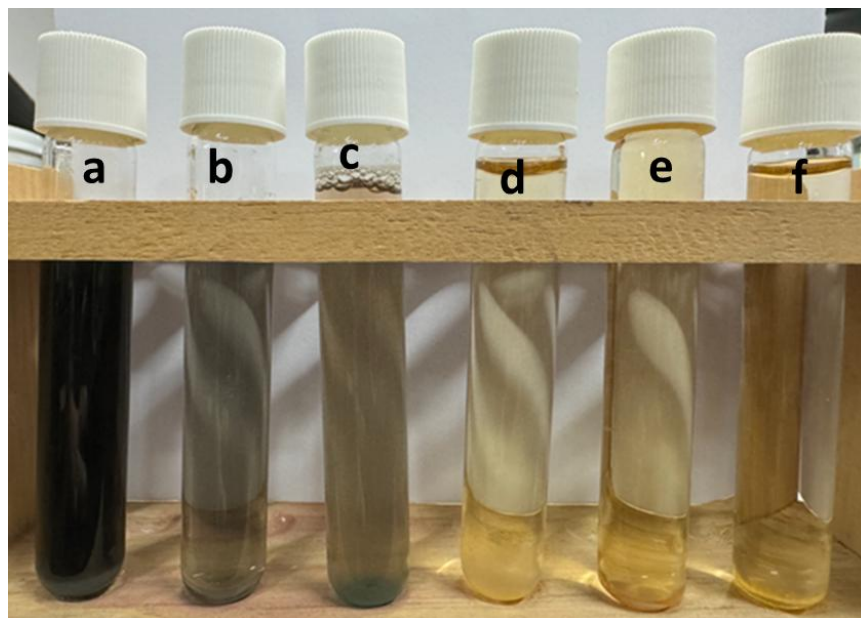


Figure 14 Comparison of batik wastewater (a) initial wastewater; (b) after 5x dilution; (c) after pH 4 setting; (d) after coagulation-flocculation process; (e) after pH 7 setting; (f) PVDF/PEG₀ ultrafiltration at operating pressure of 3 bar

Tabel 3. The characteristics of batik wastewater after UF

Parameter	After dillution	After coagulation- flocculation	After UF	Government Regulation	Rejection (%)
pH	10.9 ± 0.2	4.1 ± 0.2	7.3 ± 0.1	6 - 9	4.4 ± 1.1
COD (mg/L)	1005 ± 12	174 ± 2	179 ± 16	150	59.4 ± 3.8
TSS (mg/L)	200 ± 5	8.0 ± 0.2	2.67 ± 1.5	50	70.4 ± 2.3
TDS (mg/L)	860 ± 8	690 ± 7	753 ± 10	2000	7.9 ± 1.2
Color (Pt-Co)	2394 ± 15	508 ± 5	393 ± 7	NA	26.6 ± 1.3
Turbidity (FAU)	190 ± 6	23.0 ± 1.0	11.3 ± 1.5	25	60.9 ± 5.3