

[Fig. 1]

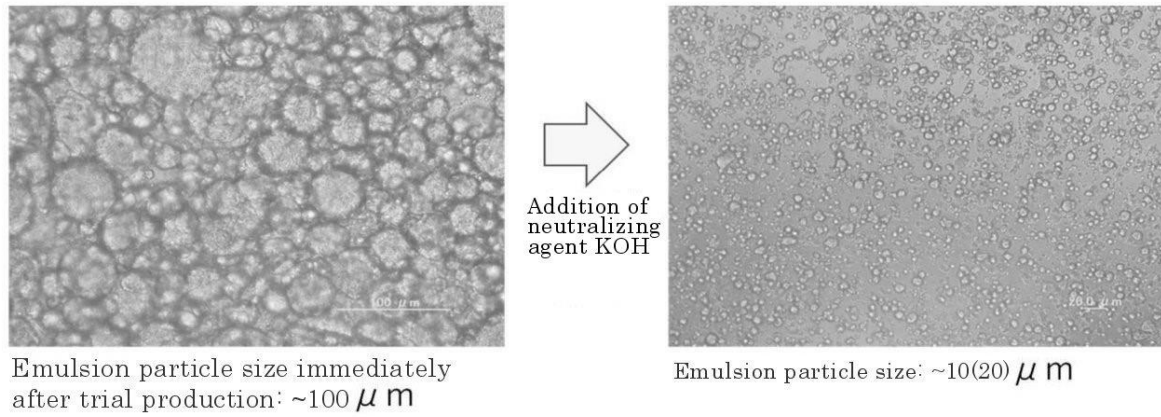
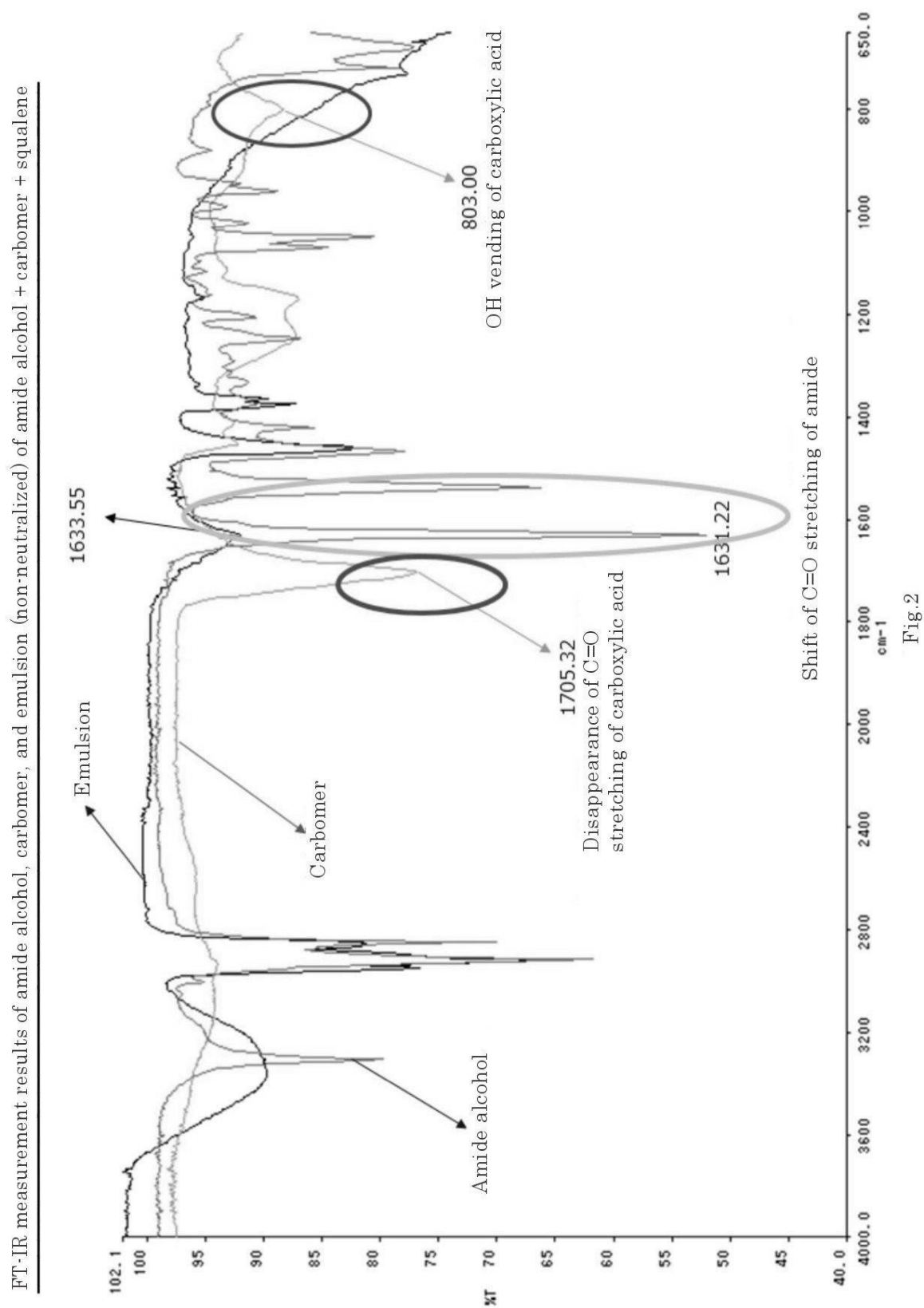


Fig. 1: Emulsified state of basic formulation before neutralization and after neutralization

[Fig. 2]



[Fig. 3]

FT-IR measurement results of amide alcohol, carbomer (neutralized), and emulsion (amide alcohol + carbomer + squalene)

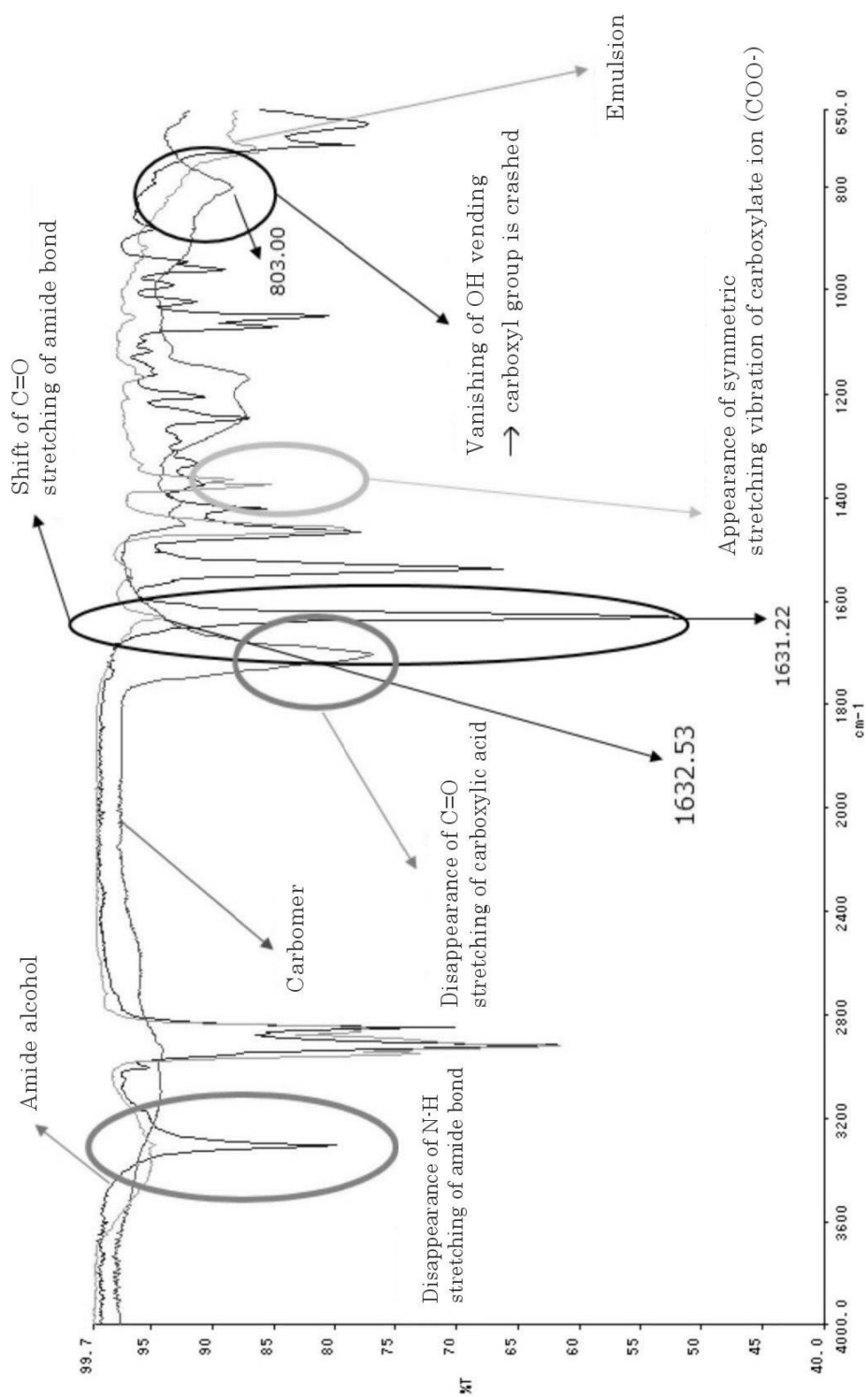
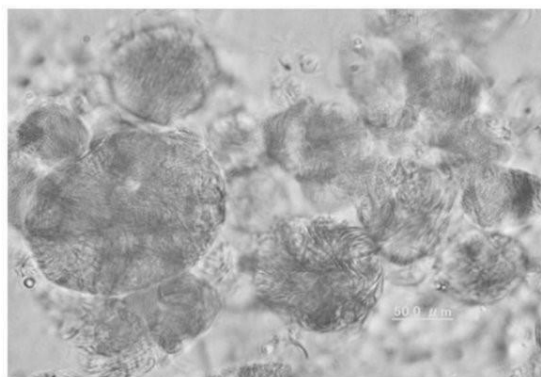
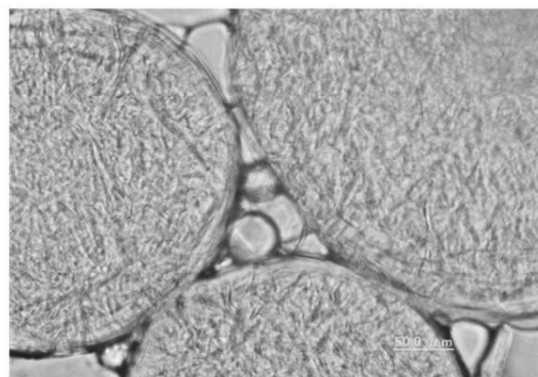


Fig. 3

[Fig. 4]



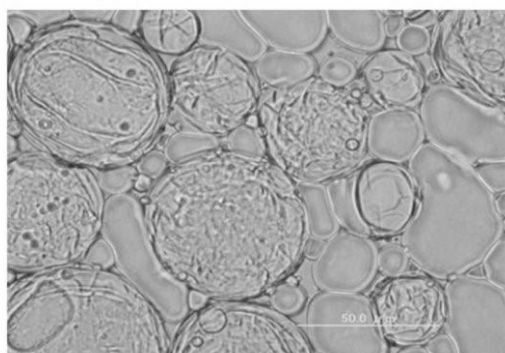
Comparative formulation 1



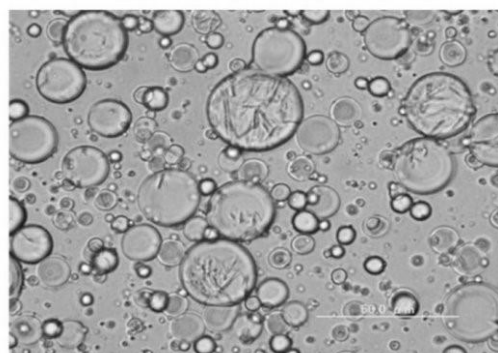
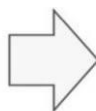
Comparative formulation 2

Fig. 4: Emulsified state of comparative formulation 1 and comparative formulation 2

[Fig. 5]



Non-neutralized



Neutralized

Fig. 5: Emulsified state of comparative formulation 3 before neutralization and after neutralization

[Fig. 6]

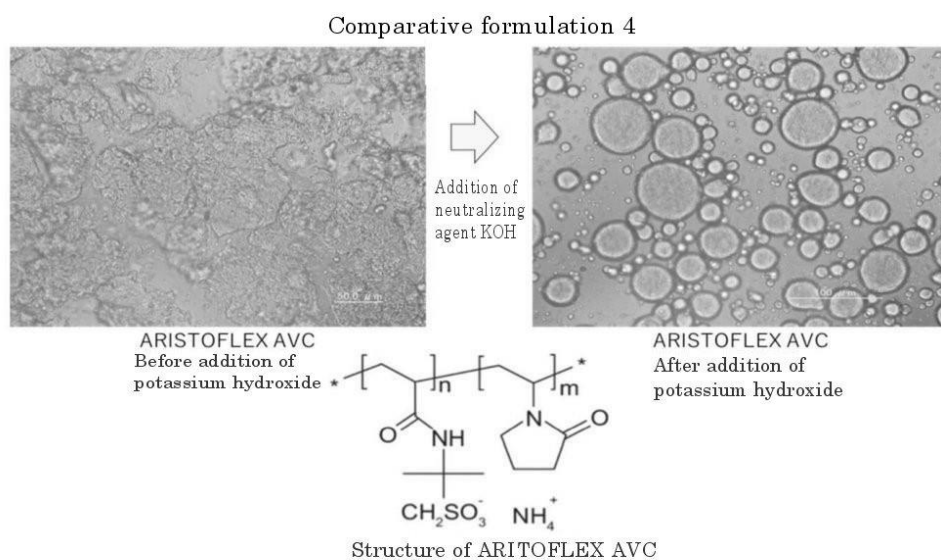


Fig. 6: Emulsified state of comparative formulation 4 before neutralization and after neutralization, and structure of thickener used

[Fig. 7]

Comparative formulation 6.(ARISTOFLEX HMB)

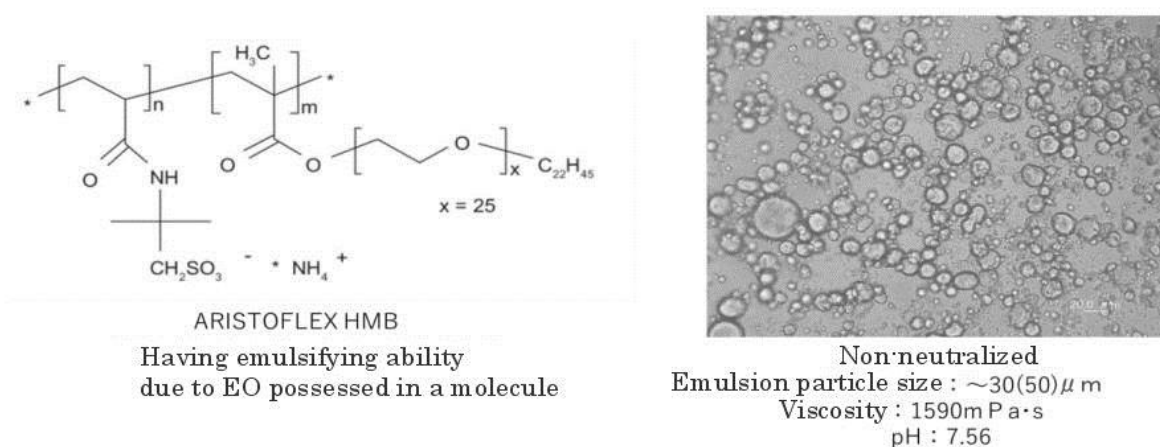
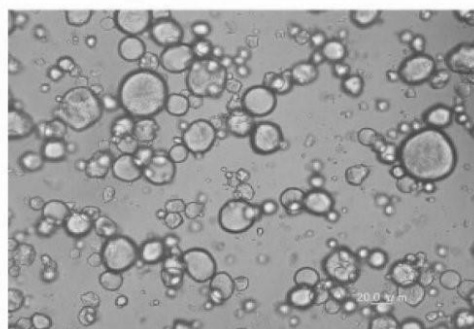


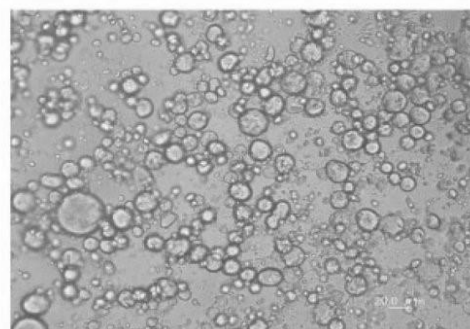
Fig. 7: Structure of thickener used in comparative formulation 6, and emulsified state of comparative formulation 6

[Fig. 8]

Comparison of comparative formulation 7 (ARISTOFELX HMB alone)
and comparative formulation 6 (combined use of ARISTOFELX HMB/amide alcohol of structural formula (II))



Comparative formulation 7.
 ARISTOFELX HMB alone
 Emulsion particle size : $\sim 30(50) \mu m$
 pH : 7.79

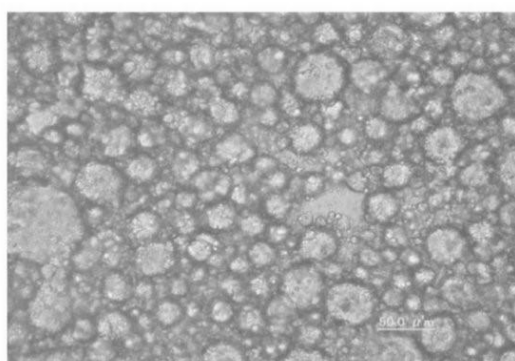


Comparative formulation 6.
 Combined use of ARISTOFELX HMB/amide alcohol of structural formula (I)
 Emulsion particle size : $\sim 30(50) \mu m$
 pH : 6.76

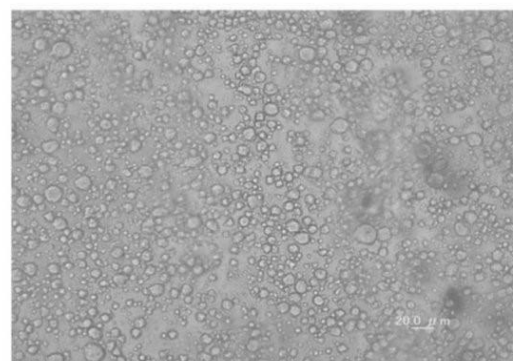
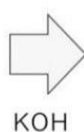
Fig. 8: Emulsified state of comparative formulation 6 and comparative formulation 7

[Fig. 9]

Basic formulation 2 (squalene, neutralizing agent: triethanolamine)



Non-neutralized

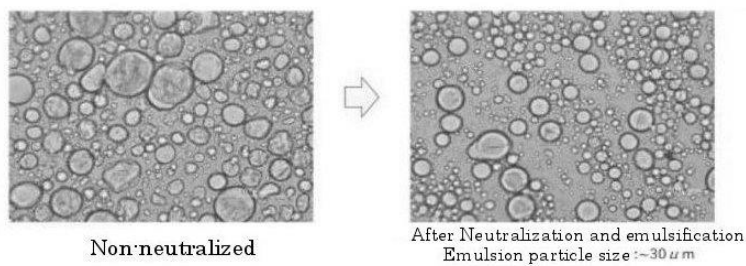


After neutralization
 Emulsion particle size: $\sim 10(20) \mu m$
 Viscosity: 7148mPa·s
 pH : 6.07

Fig. 9: Emulsified state of basic formulation 2 before neutralization and after neutralization

[Fig. 10]

Comparative formulation 8 (amide alcohol of structural formula (II) not blended, Acrylate/C10-30 Alkyl Acrylates Crosspolymer blended)



Example 3 (amide alcohol of structural formula (II) blended, Acrylate/C10-30 Alkyl Acrylates Crosspolymer blended)

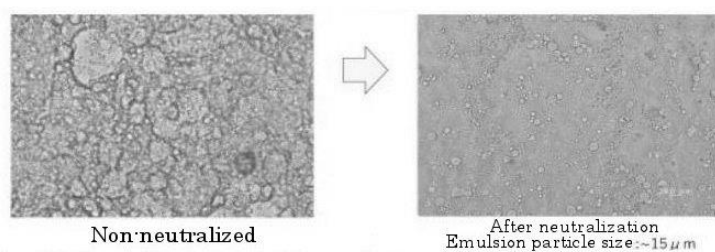
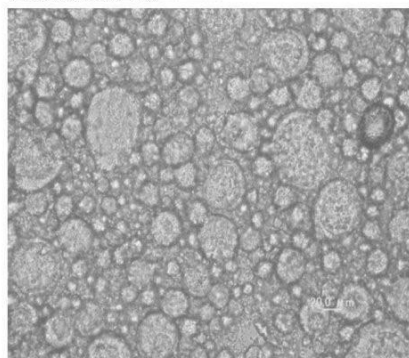


Fig. 10: Emulsified state of Example 3 and comparative formulation 8 before neutralization and after neutralization

[Fig. 11]

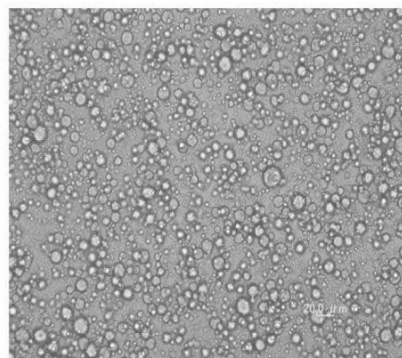
Example A (LH)



Non-neutralized



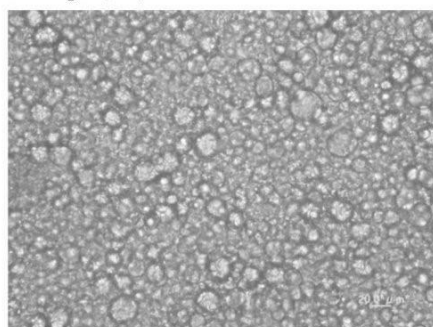
KOH



After neutralization

Emulsion particle size : $\sim 5(20)\mu\text{m}$
 Viscosity : 48960mPa·s
 pH : 6.77

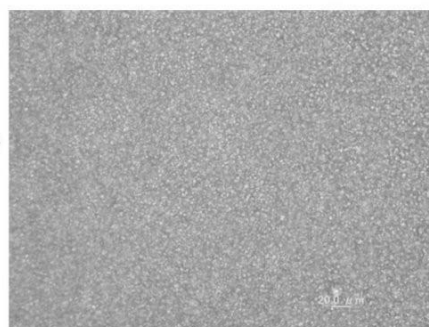
Example (LB)



Non-neutralized



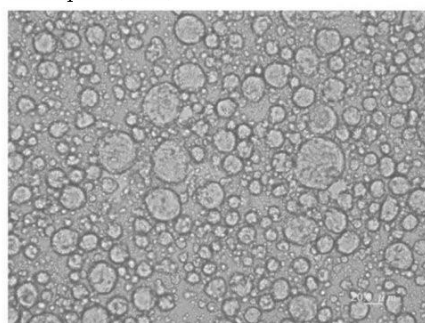
KOH



After neutralization

Emulsion particle size : $\sim 3(5)\mu\text{m}$
 Viscosity : 44690mPa·s
 pH:6.81

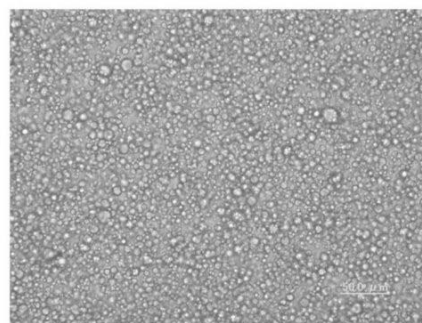
Example C (OLB)



Non-neutralized



KOH



After neutralization

Emulsion particle size : $\sim 5(10)\mu\text{m}$
 Viscosity : 9948mPa·s
 pH:7.32

Fig. 11: Emulsified state of Examples A, B and C before neutralization and after neutralization

[Fig. 12]

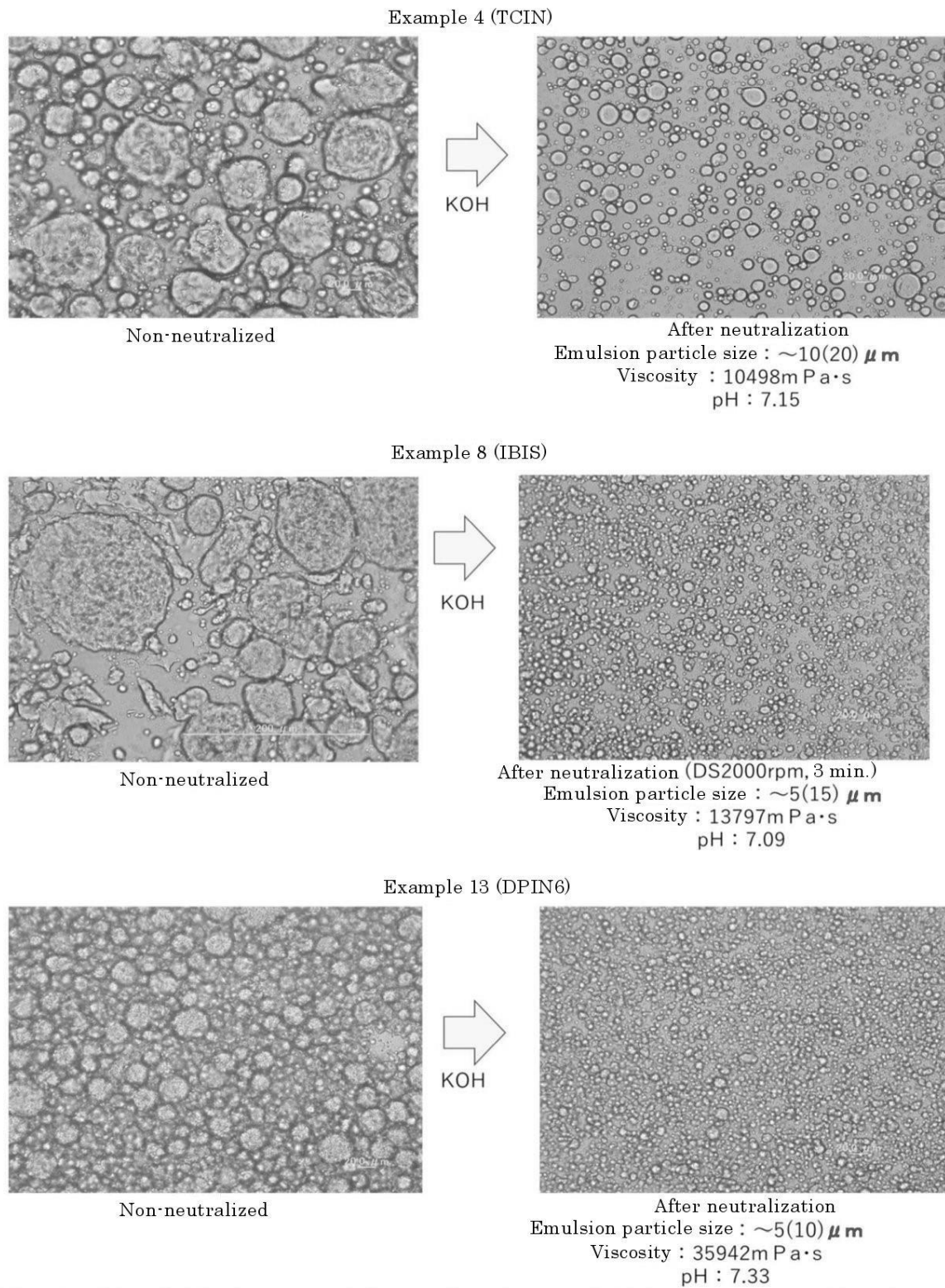


Fig. 12: Emulsified state of Examples 4, 8 and 13 before neutralization and after neutralization

[Fig. 13]

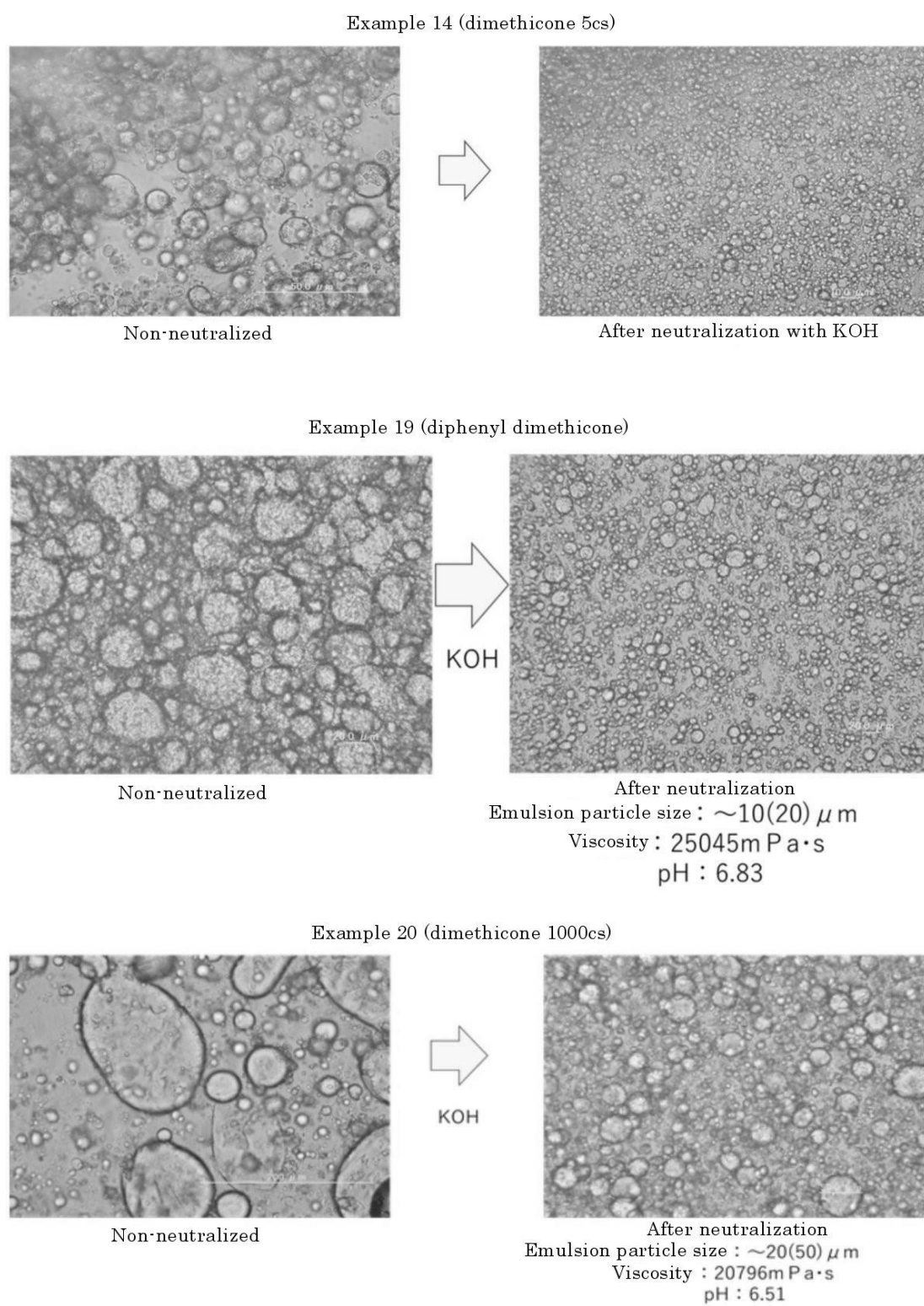


Fig. 13: Emulsified state of Examples 14, 19 and 20 before neutralization and after neutralization

[Fig. 14]

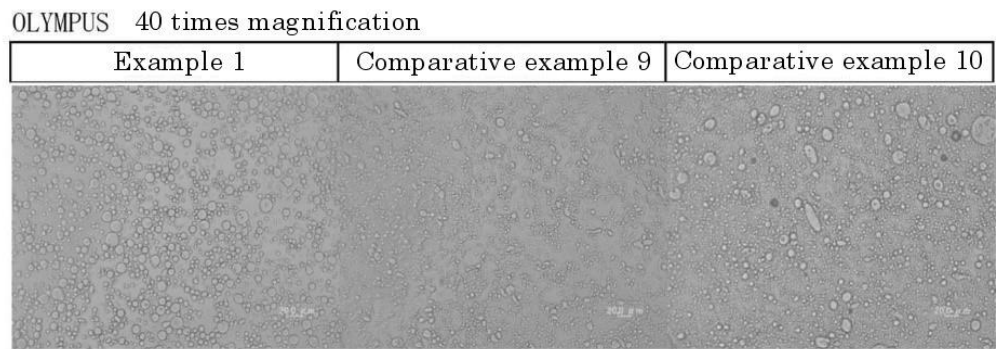


Fig. 14

[Fig. 15]

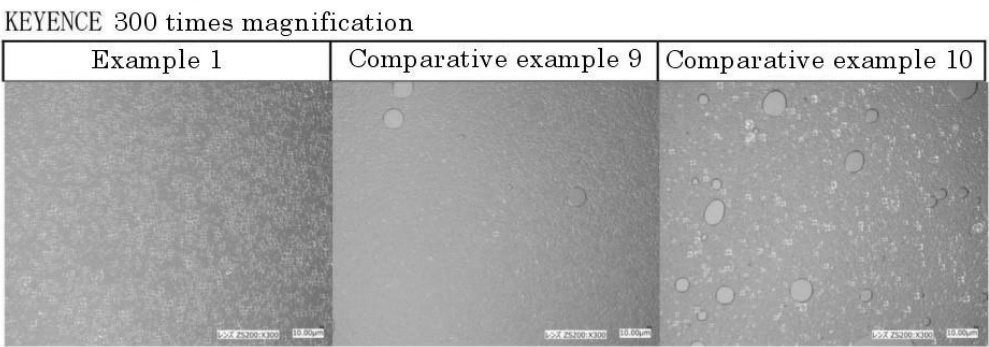


Fig. 15

[Fig. 16]

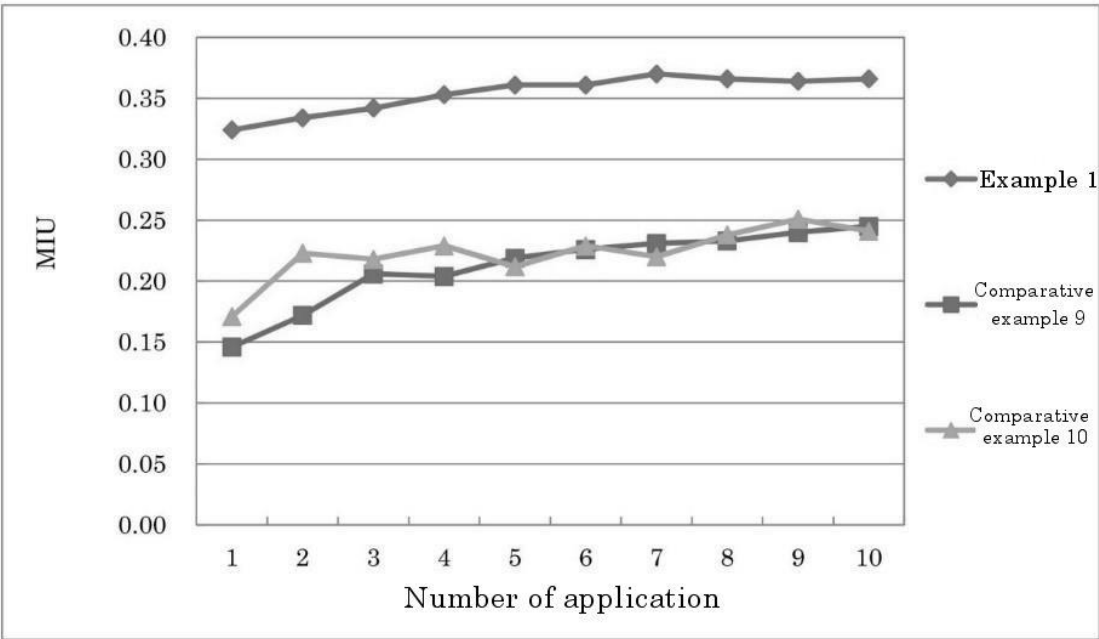


Fig. 16

[Fig. 17]

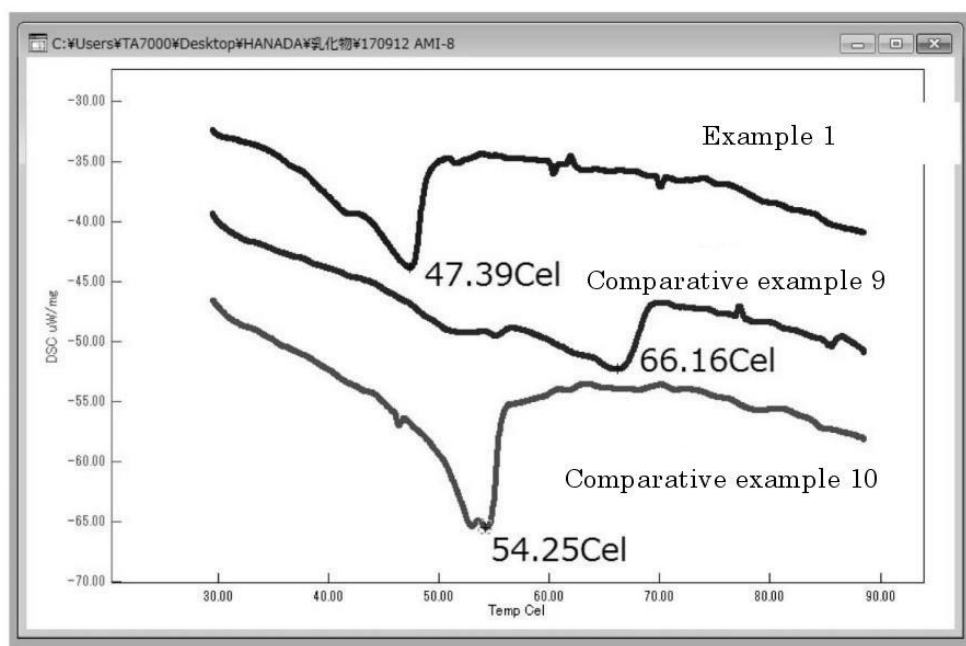


Fig. 17

[Fig. 18]

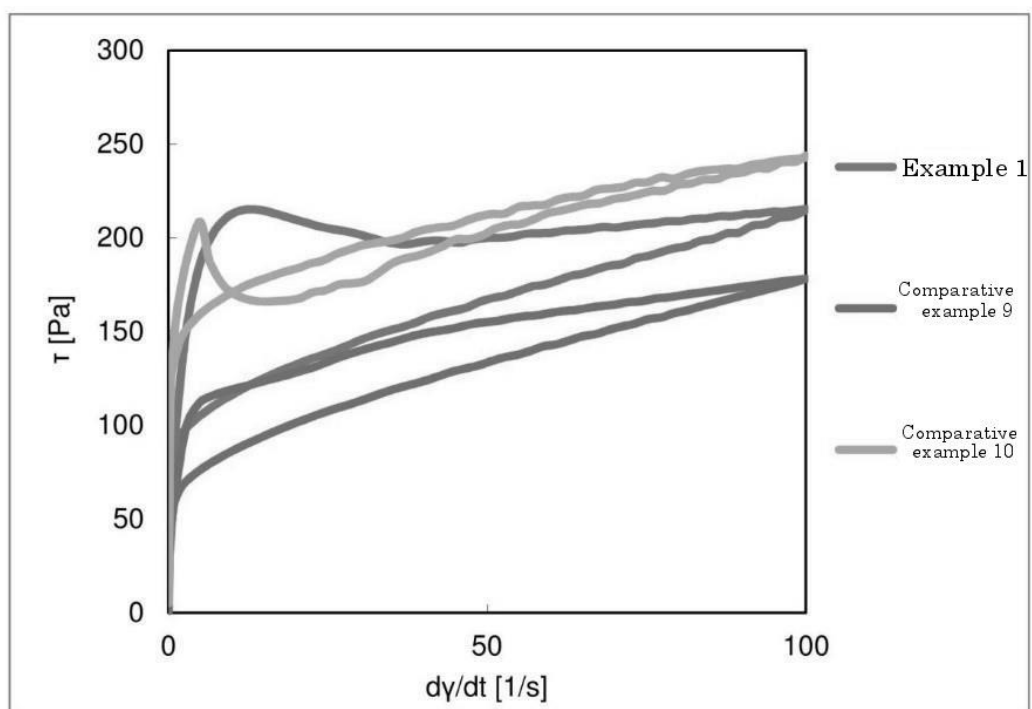


Fig. 18

[Fig. 19]

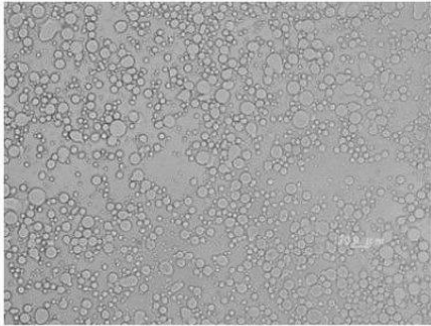
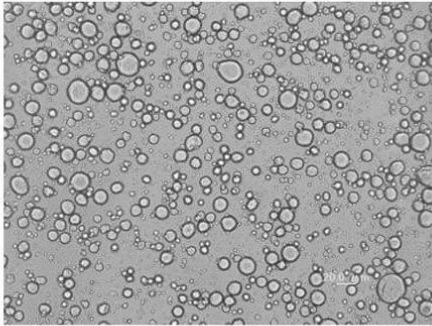
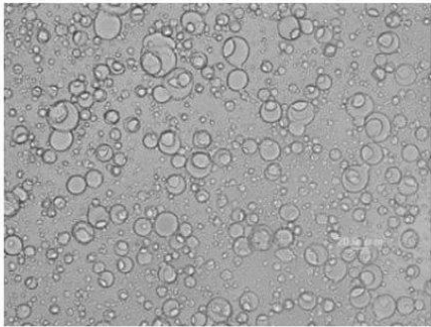
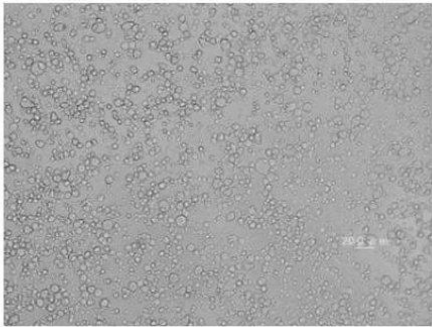
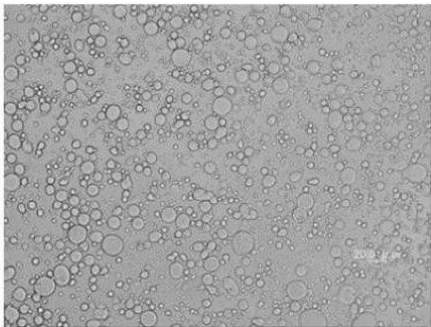
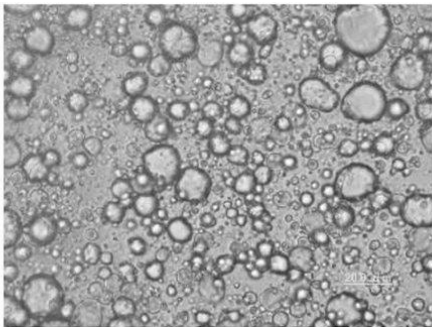
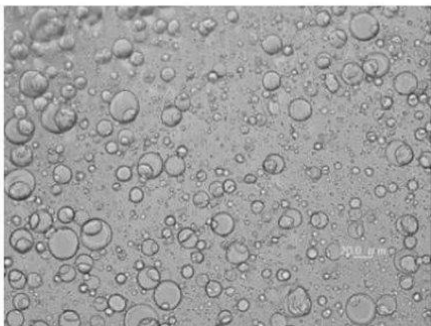
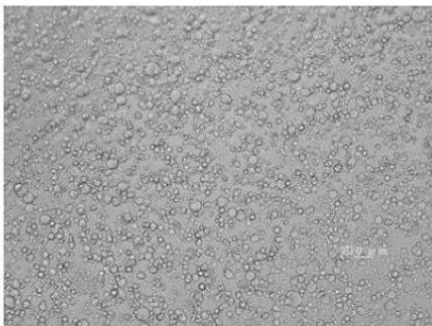
	Post-addition	Pre-addition
Example D		
Example E		
Example F		
Example G		

Fig. 19: Emulsified state of Examples D to G in terms of post-addition and pre-addition

[Fig. 20]

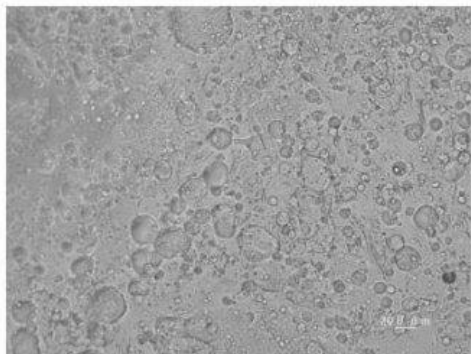


Fig. 20: Emulsified state of W/O emulsion of Example H