

BUKTI KORESPONDENSI

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Judul Artikel	Development and characterization of clove oil microemulsion
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Diskusi yang dilakukan untuk perubahan pada naskah adalah pada bagian penentuan campuran S-mix. Berdasarkan grafik maka S-mix yang dipilih adalah pada perbandingan 2:1. Pernyataan dalam naskah adalah sebagai berikut:

Fig. 2 shows the S-mix of the 2:1 ratio had a wider microemulsion area. To form a microemulsion, water should be added to a rate of no more than 33%. The larger the microemulsion formation area, the greater the efficiency of the micro emulsification system. A decrease in the oil level can lead to an increase in the microemulsion formation area. Non formation of microemulsion may be attributed to the surfactant concentration. The lower the surfactant concentration, the less micellar formation that plays a role in bringing together the oil and water phases in the microemulsion. Surfactants and co-surfactants are adsorbed at the interface, reducing the interfacial energy, and providing a mechanical barrier to prevent coalescence. The added cosurfactant can create and fill the gaps in the surfactant molecule. The co-surfactant addition can cause greater penetration of the oil phase in the hydrophobic region of the surfactant monomer, thereby lowering the interfacial tension (Nirmalayanti 2021). The S-mix of the ratio of 2:1, showed a greater area than that S-mixes of other ratios.

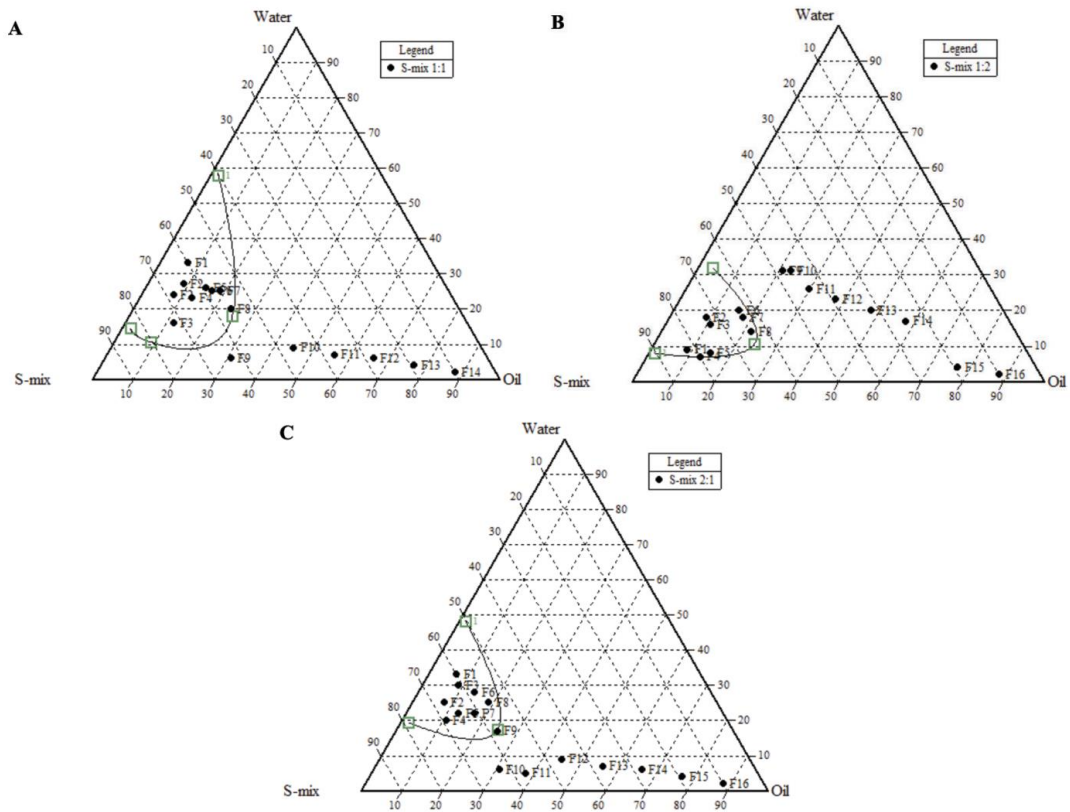


Figure 2. The pseudo-ternary phase diagram for (a) the tween 80:PEG 400 ratio of 1:1, (b) the tween 80:PEG 400 ratio of 1:2, and (c) the tween-80:PEG 400 ratio of 2:1.

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