ABSTRACT

EFFECT OF COMPARISON SURFACTANT AND COSURFACTANT IN WATER/OIL MICROEMULSION IN RELEASE OF OVALBUMIN

Microemulsion Water/Oil with Surfactant (Span 80-Tween 80) : 
Cosurfactant (Etanol) =5:1, 6:1, and 7:1)

Anisa Rizki Amalia

The aim of this study was to investigate the effects of comparison Surfactant (Span 80-Tween 80) : Cosurfactant (etanol) = 5:1, 6:1, and 7:1 in released of ovalbumin in microemulsion water/oil. The release test used Franz diffusion cell with 21,5 ml aquabidestilata in 32,5±0,5°C as receptor during 60 minutes. As results, the AUC (Area Under Curve) cumulatife amounts of released ovalbumin from w/o microemulsions with Surfactant (Span 80-Tween 80) : Cosurfactant (etanol) = 5:1, 6:1, and 7:1 were 4693.4574 µg/cm² ± 1764.7727, 6590.0371 µg/cm² ± 1084.9383, 5288.8974 µg/cm² ± 412.2971 respectively. Statistical analysis using ANOVA one way with α = 0,05% obtained that there was no significant difference between each formula.

Keyword (s) : ovalbumin, w/o microemulsion, release, Franz diffusion cell, cosurfactant