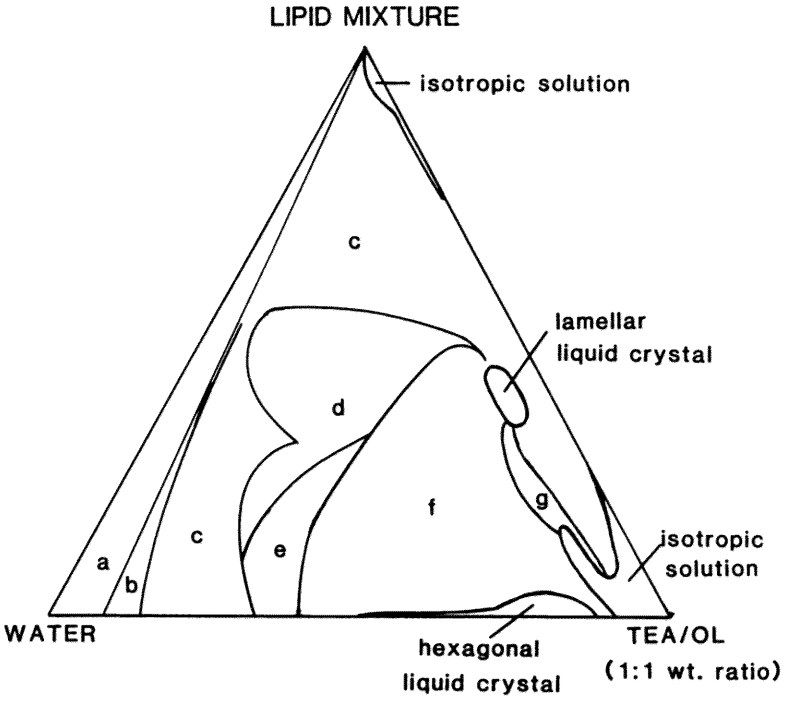

Figure 9.16 Diagram showing the complex phase behavior for the multiple-component water–lipid mixture–TEA:OL system. The multiple-phase regions were observed to have the following appearance after centrifugation: (a) cloudy white and clear gray isotropic layers; (b) cloudy white, clear gray, and anisotropic layers; (c) cloudy white and clear colorless isotropic layers; (d) cloudy white—stable to centrifuging; (e) cloudy white, clear colorless isotropic and anisotropic layers; (f) lamellar and hexagonal liquid crystal mixture; (g) isotropic solution and lamellar liquid crystal mixture.

ate ternary system at 50°C must correspond to the phase encountered by the 50°C line as it extends across the binary composition/temperature plot. Likewise, the 100°C line must correspond with the phase behavior for the higher temperature ternary plots, because these are identical systems under identical conditions (ambient pressure). If the phases do not correspond, then differences in component purity or investigator interpretation may have occurred.

Often information plotted in one representation is difficult to interpret, but becomes more apparent when plotted in the comple-