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Release of Nicotinamide from Fatty Acid-Nicotinamide Equimolar Complexes*

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The release behavior of nicotinamide (NAA) from fatty acid (FA)-NAA equimolar complexes was examined in a JP XI dissolution test apparatus in JP XI disintegration test medium No.1 (pH 1.2) at 37°C where the carbon number of FA is 14-18. The time required for 50% or 80% of NAA to release (T_{50} or T_{80}) was measured, and the effect of the constituent FA on T_{50} or T_{80} was investigated. The values of T_{50} or T_{80} for FA-NAA formed with odd-numbered FA were larger than those for FA-NAA formed with even-numbered FA whose alkyl chain length is one more carbon number longer, though the values of T_{50} or T_{80} increased rather regularly with an increase of the alkyl chain length for only even-numbered or odd-numbered FA. The values of T_{50} and T_{80} for FA-NAA formed with heptadecanoic acid (C17-NAA) were about 36 and 102 min., respectively, suggesting that C17-NAA may be applicable to the preparation of a sustained-release drug formulation.

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