Olmesartan medoxomil-loaded mixed micelles: Preparation,

Mona El Assal ,Mohamed A. El-Gendy a, Mona I.A. El-Assal a, *, Mina Ibrahim Tadros b.

Abstract

 $Qnoguctvcp"ogfqzqokn"*QNO+"ku"jkijn{"nkrqrjknke"kp"pcvwtg"*nqi"r" "4.31) which attributes to its low$

aqueous solubility contributing to its low bioavailability 25.6%. OLM was loaded into mixed micelles

carriers in a trial to enhance its solubility, thus improving its oral bioavailability. OLM-loaded mixed

o kegnngu" y gtg" rtgrctgf." wukp i "c" Rnwtqpke Ì " o kzvwtg" qh" H127 and P123, adopting the thin-film hydration

o gvjqf0"Vjtgg"ftwi<"Rnwtqpke Ì "o kzvwtg"tcvkqu"*1:40, 1:50and 1: 60) and various F127: P123 ratios were

prepared. OLM Loaded mixed micelles showed stability up to 12 h. The particle size of the systems varied

from 364.00 nm (F3) to 13.73 nm (F18) with accepted Poly dispersity index (PDI) values. The in-vitro

release studies of OLM from mixed micelles versus drug aqueous suspension were assessed using the

reverse dialysis technique in a USP Dissolution tester apparatus (type II). The highest RE% (43%) was

achieved with OLM-loaded mixed micelles (F8) when compared to (35%) of drug suspension.

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