

FORMULASI MATRIKS TRANSDERMAL PENTAGAMAVUNON-0 DENGAN KOMBINASI POLIMER PVP K30 DAN HIDROKSIPROPIL METILSELULOSA

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Abstract	<p>Abstract: Transdermal delivery system is one of the delivery system for Pentagamavunon-0 (PGV-0) to avoid the high intensity of first pass metabolism of PGV-0 in peroral route. The purpose of this research was to optimize the formula of PGV-0 transdermal matrix with a combination of PVP K30 and HPMC polymers. The simplex lattice optimization approach of the transdermal matrix formulas was performed by using Design Expert 7.1.5 software. The visual appearance, weight, thickness, moisture content, moisture uptake, folding endurance, drug content, and dissolution efficiency of the release profile of PGV-0 from the matrix for 6 hours were evaluated as responses to determine optimum formula of matrix. The results showed that a combination of PVP K30 and HPMC polymers had a significant influence on the visual appearance, moisture content, and dissolution efficiency of PGV-0. Combination of 1.98% of PVP K30 and 4.52% of HPMC as the optimum formula could produce homogeneous and flexible matrix with moisture content of 3.21%. The dissolution efficiency was 9.11%, indicating that 101.93 g of PGV-0 was released from the optimum formula during 6 hours. Keywords : Pentagamavunon-0, Transdermal matrix, PVP K30, HPMC</p>
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