DETERMINATION OF ACYCLOVIR (ACYCLOGUANOSINE) LEVEL IN TABLETS BY HIGH PERFORMANCE LIQUID CHROMATOGRAPHY METHOD (HPLC)

ABSTRACT

Acyclovir (Acycloguanosine), also known as acyclovir, is an antiviral drug. It is mainly used for the treatment of herpes simplex virus infection, smallpox, and herpes zoster. Other uses include the prevention of cytomegalovirus infection after transplantation and severe complications from Espein-Bar virus infection. Acyclovir is a nucleic acid analogue made from guanosine. Acyclovir works by reducing the production of viral DNA.

In this research, the determination of acyclovir (acycloguanosine) in tablet dosage from using High Performance Liquid Chromatography (HPLC) method using uv-vis detector with wavelength 254 nm. Acyclovir (Acycloguanosine) levels of 93.50 % were obtained, which means that the acyclovir (Acycloguanosine) active ingredient in accordance with Pharmacopoeia Indonesian Edition V 2014 of which not less than 90.00% with 110.0% (not crossing the threshold).

Keyword: Acyclovir, Tablet, High Performance Liquid Chromatography (HPLC)