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Cost-Effective Liquid Chromatographic Approach for Rapid Detection of Remdesivir in Pure Form and Pharmaceutical Formulations

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Abstract

The evaluation of Remdesivir in pure form and pharmaceutical dosage formulation has been established and veriýed using a simple, speciýc, and repeatable RP-HPLC approach. The estimation was accomplished by Thermo Scientiýc Hypersil BDS C18 column (150 x 4.6 mm) 5Ô i.d. in gradient elution with a mobile phase made up of 10 mM ammonium acetate bu er (pH 3.5 by 2% glacial acetic acid) and acetonitrile, þowing at a rate of 1.0 mL/min. The analyte was measured at a wavelength of 245nm. Remdesivirs linearity was found to be between 2 and 10 Õg/mL, while its recovery was shown to be between 99.01 and 100.04%. The developed method was authenticated as per ICH guideline Q2R2.

Keywords:

Introduction

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Chemicals and Reagents

Wavelength determination for Remdesivir ( )

HPLC chromatographic conditions

%

i. Solution Preparations

- %
-

ii. Diluent-1

-

Sensitivity: limit of detection (LOD) and limit of quanti cation (LOQ)

$$LOD = 3.3\frac{\sigma}{S}$$

Accuracy

Table 6: Regression statistics for LOD and LOQ.

R Square	0.999
Standard Error (ů)	92441.78
Observations	5
Intercept	178242.13
X variable (s)	875281.30

Precision

Rob ne

Solution Stability