

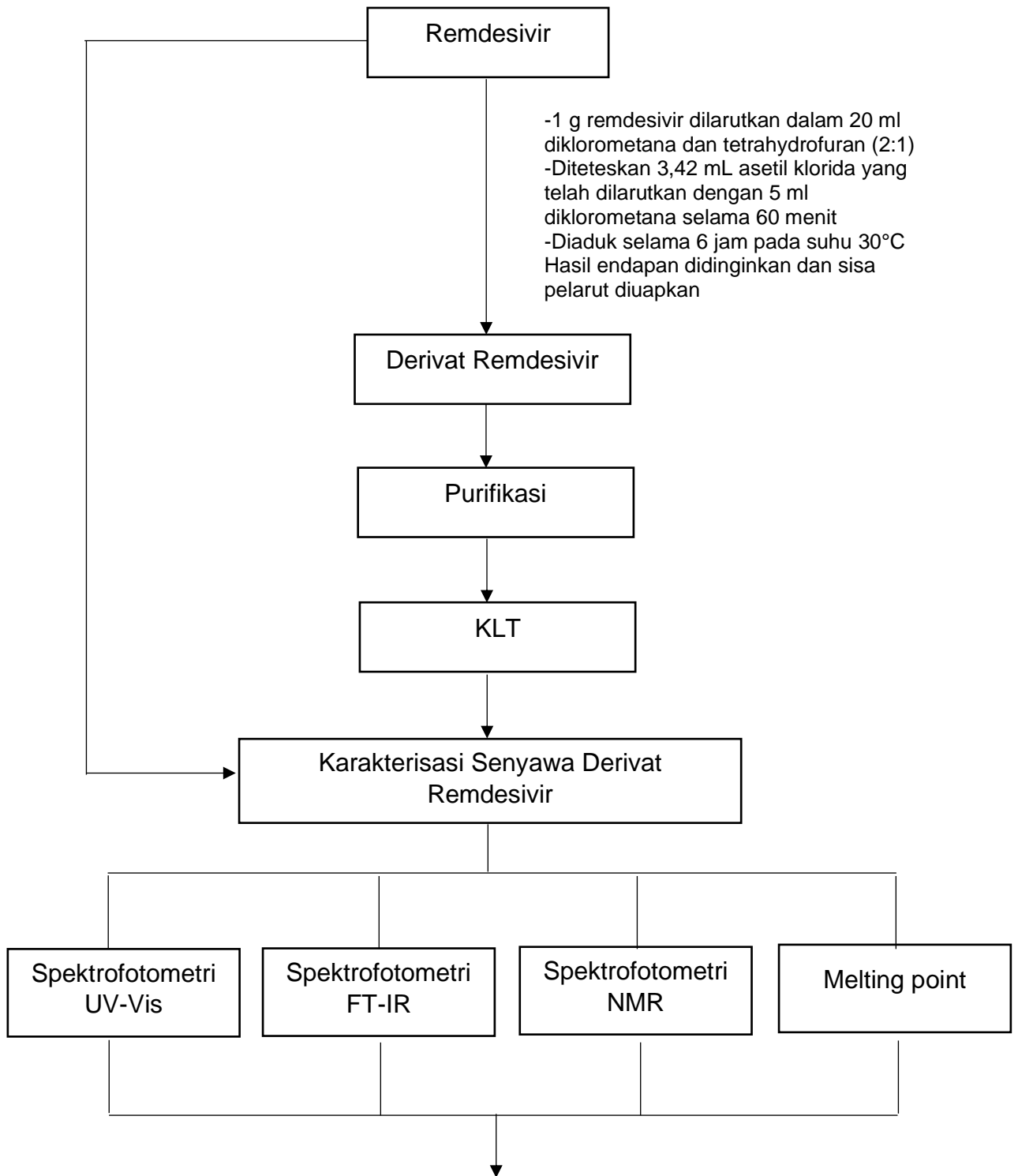
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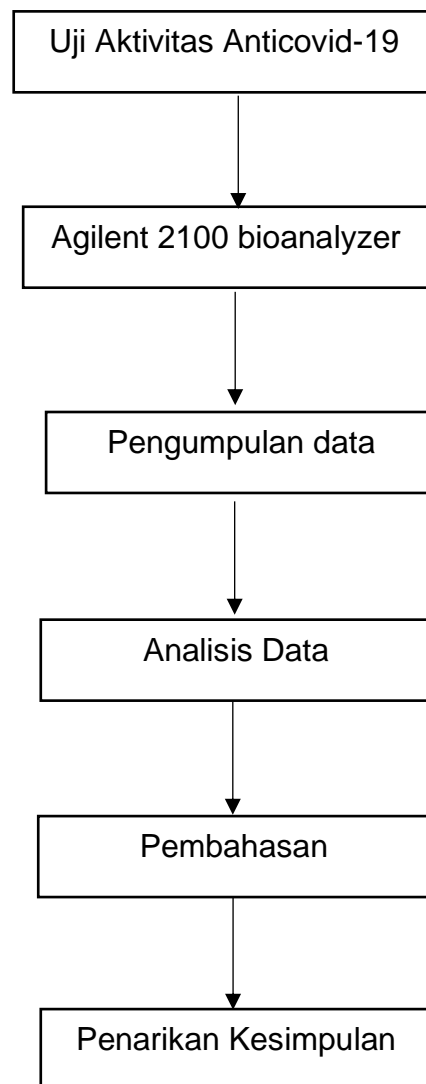
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LAMPIRAN I
SKEMA KERJA





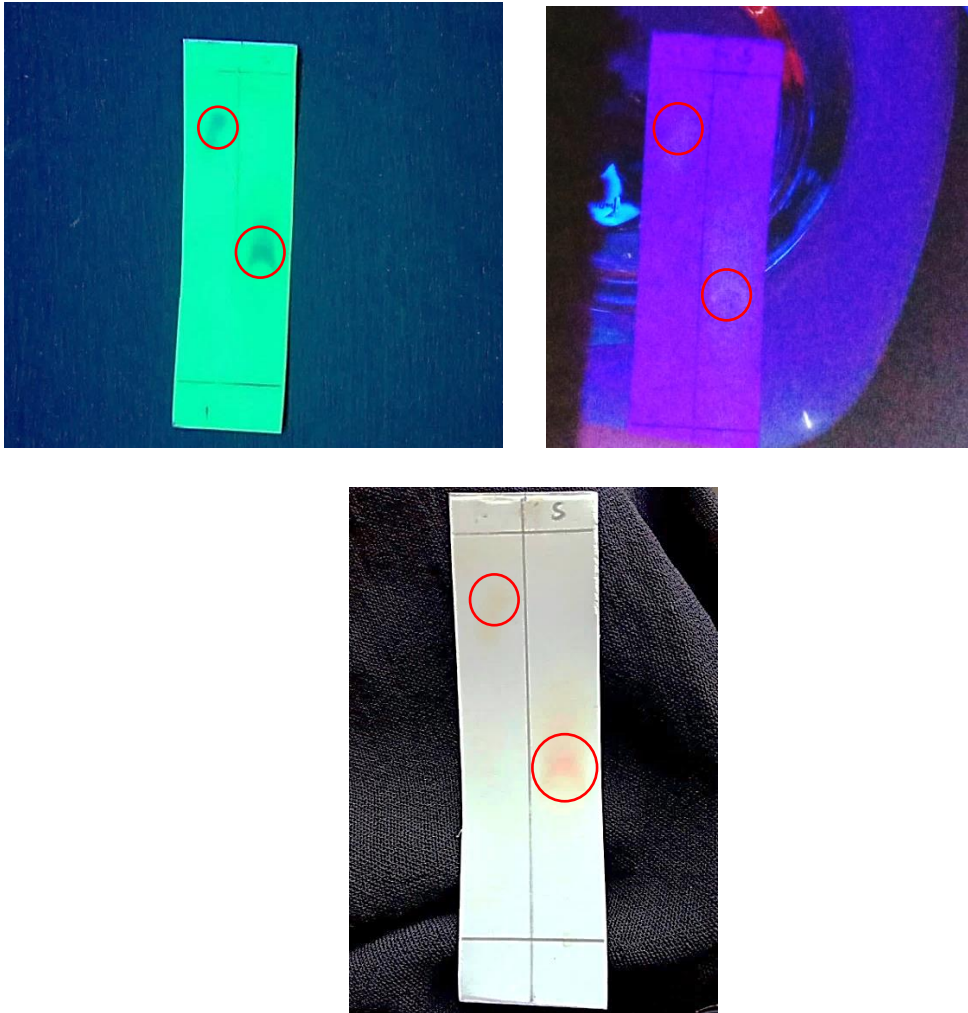
LAMPIRAN II
GAMBAR HASIL PENELITIAN



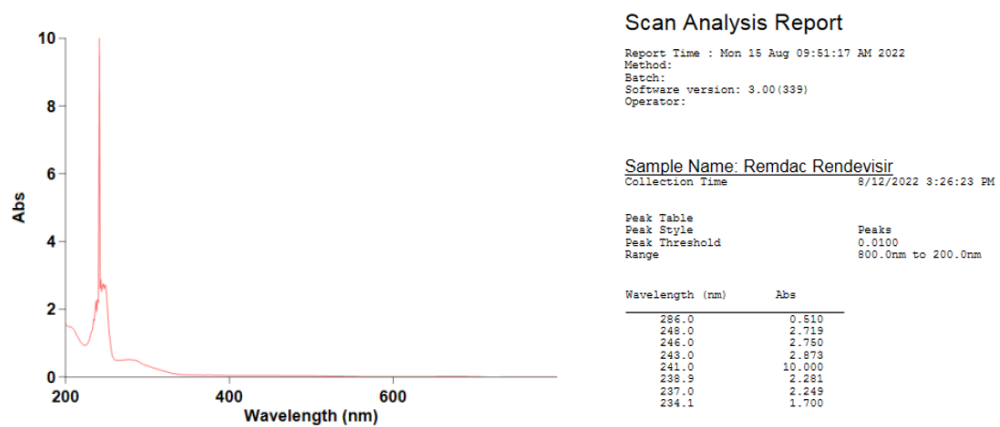
Gambar 11. Senyawa Derivat Remdesivir



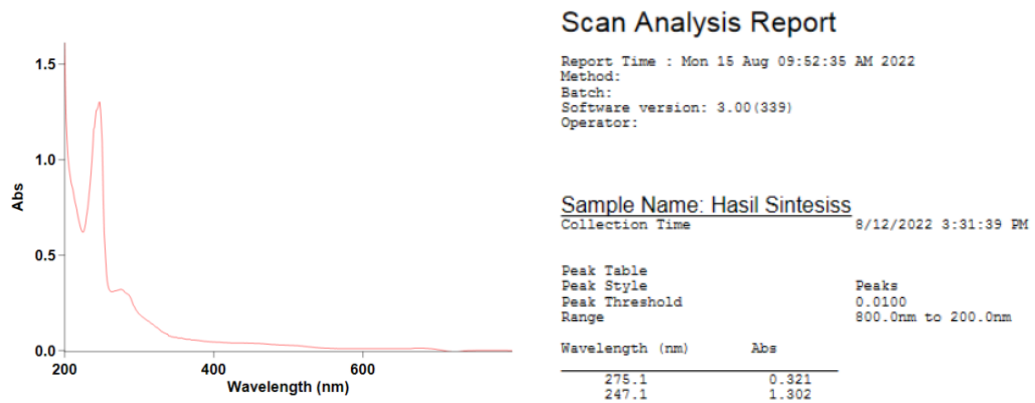
Gambar 12. Senyawa Remdesivir



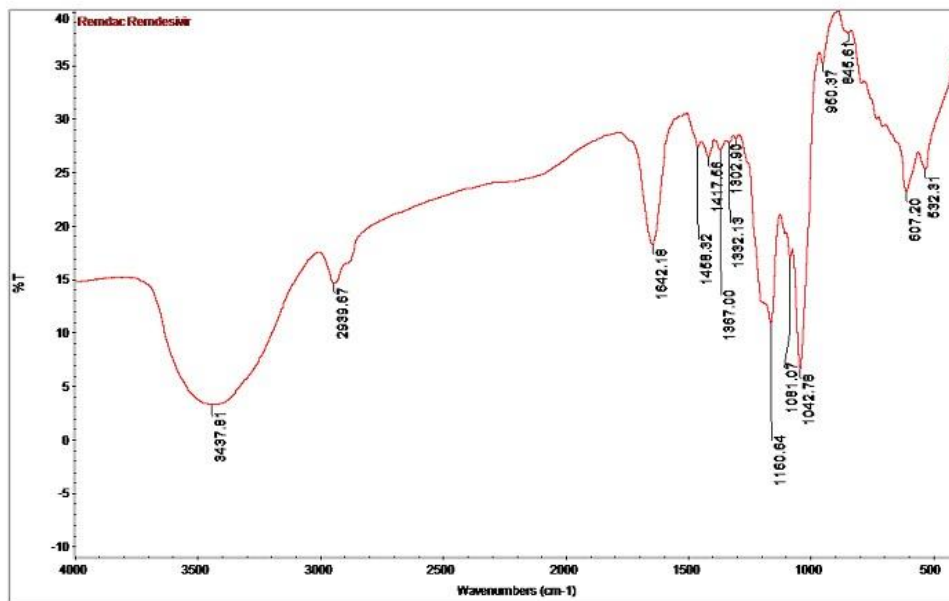
Gambar 13. Hasil KLT senyawa remdesivir dan derivat remdesivir



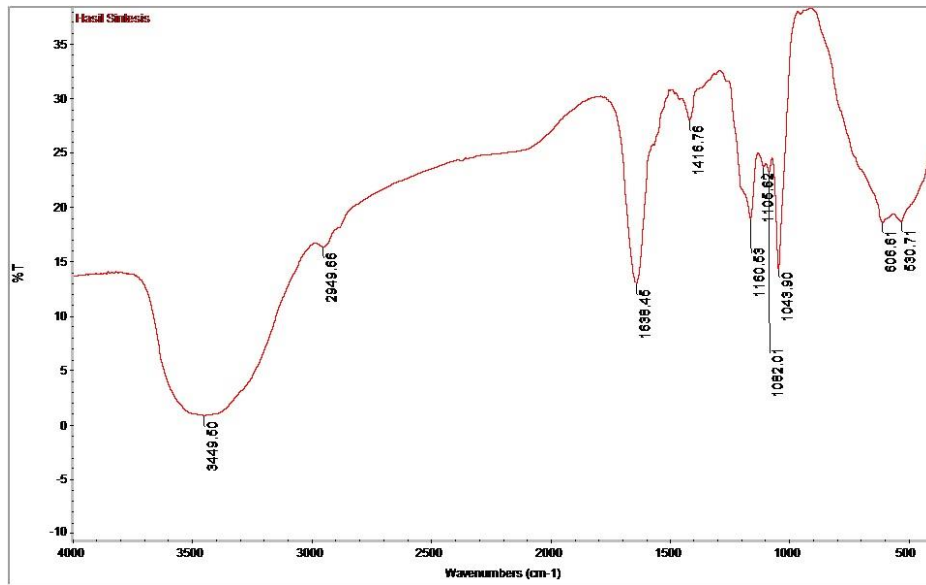
Gambar 14. Hasil Panjang Gelombang Maksimum pada Spektrofotometri UV-Vis senyawa remdesivir



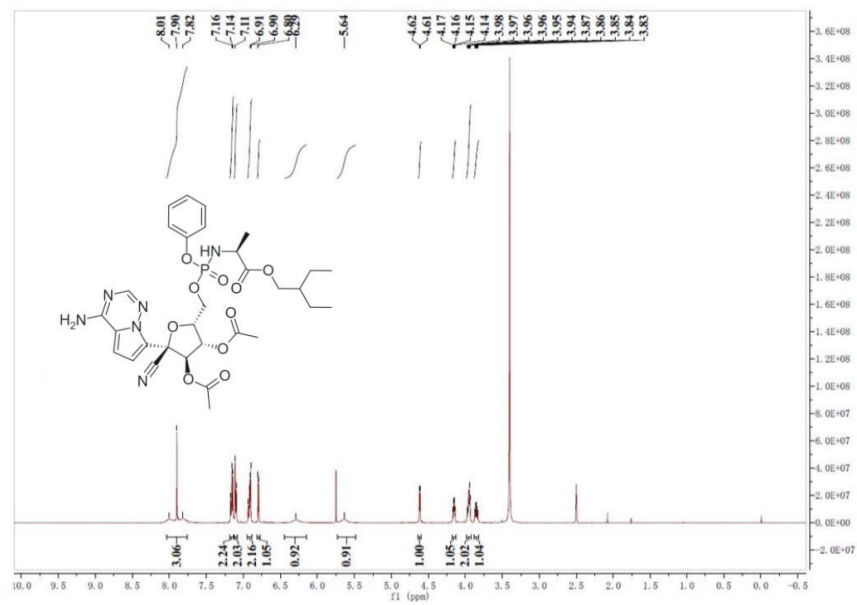
Gambar 15. Hasil Panjang Gelombang Maksimum pada Spektrofotometri UV-Vis senyawa derivat Remdesivir



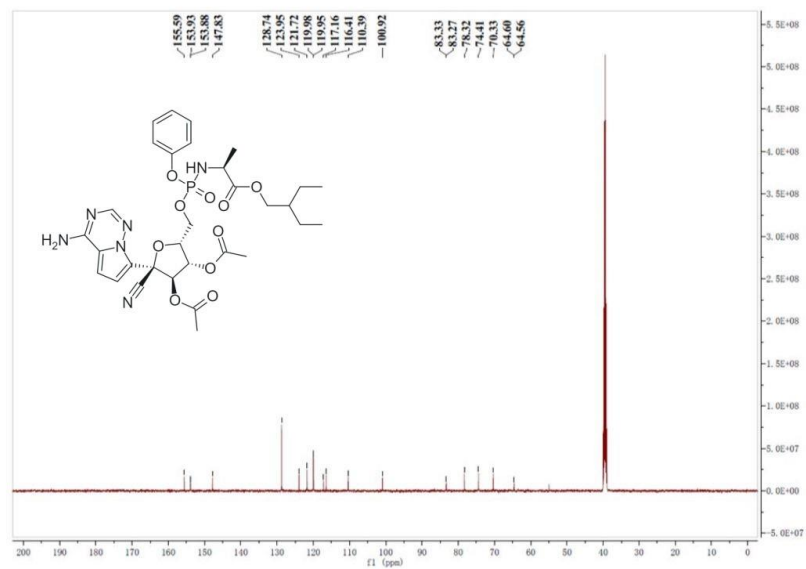
Gambar 16. Hasil Spektra IR senyawa Remdesivir



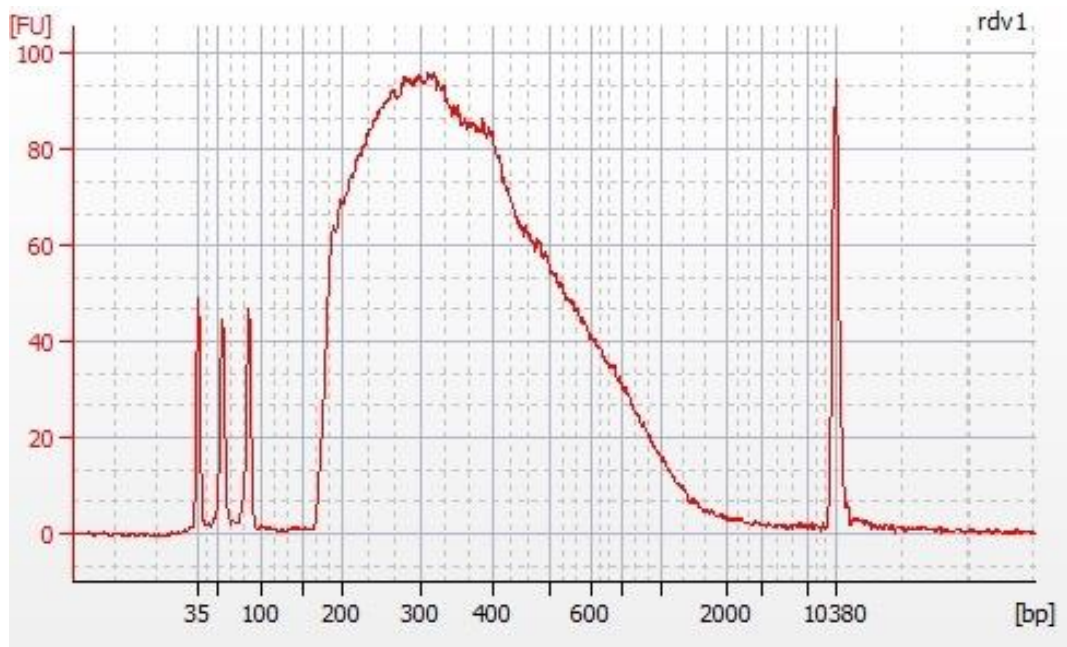
Gambar 17. Hasil Spektra IR senyawa derivat Remdesivir



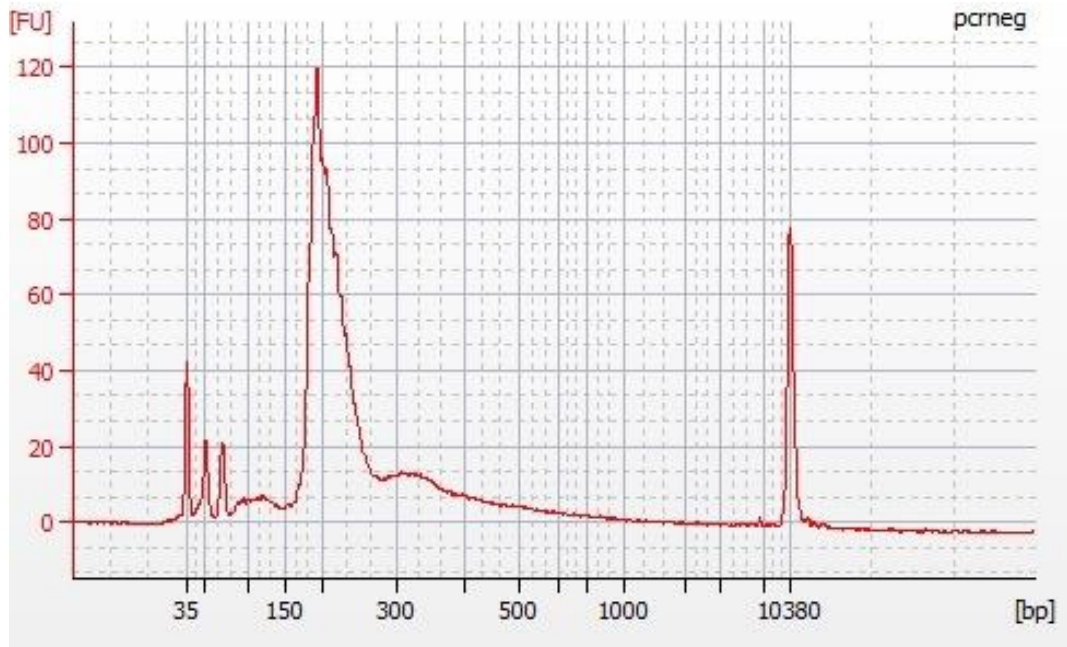
Gambar 18. Hasil spektra ¹H NMR senyawa Derivat Remdesivir



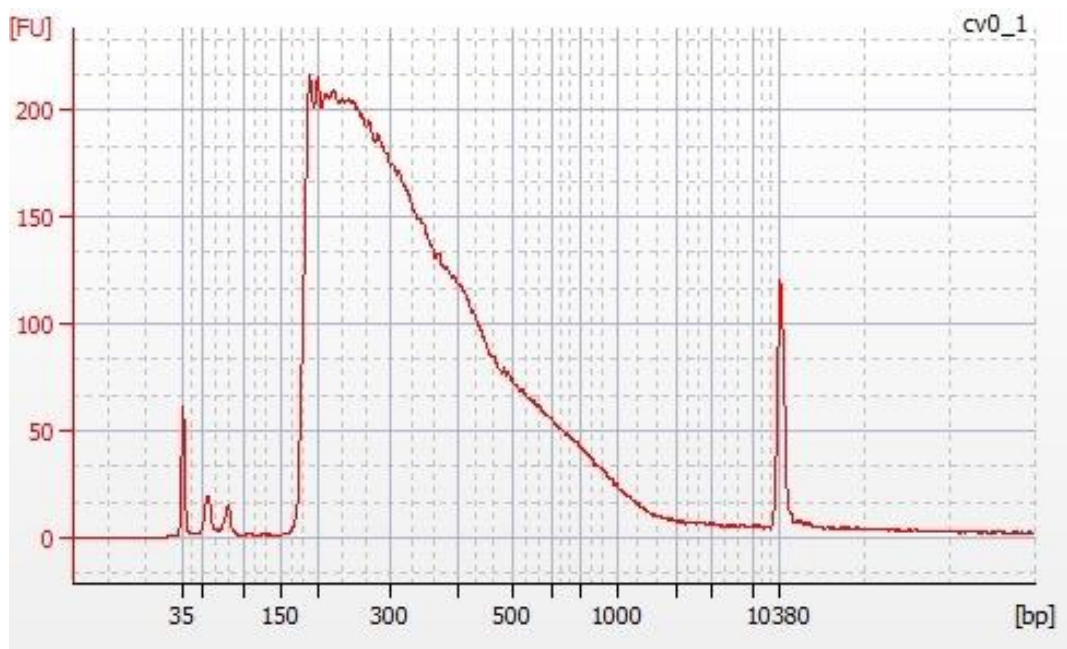
Gambar 19. Hasil spectra ^{13}C NMR senyawa Derivat Remdesivir



Gambar 20. Hasil determinasi ukuran fragmen DNA pada sampel derivat remdesivir



Gambar 21. Hasil determinasi ukuran fragmen DNA pada kontrol negatif



Gambar 22. Hasil determinasi ukuran DNA Cv0-1 (wildtype SARSCOV-2)

LAMPIRAN III
GAMBAR INSTRUMEN



Gambar 23. Spektrofotometri UV-VIS



Gambar 24. Spektrofotometri FTIR



Gambar 25. Spektrofotometri NMR



Gambar 26. Melting Point Analyzer



Gambar 27. Agilent 2100 Bioanalyzer

LAMPIRAN IV

PERHITUNGAN RENDAMEN SENYAWA DERIVAT REMDESIVIR

Massa remdesivir = 1 gram

Massa molekul relative (Mr) Remdesivir = 602.585 g/mol

$$\begin{aligned}\text{Mol remdesivir} &= \frac{\text{massa}}{mr} \\ &= \frac{1 \text{ g}}{602.585 \text{ g/mol}} \\ &= 0.0016 \text{ mol}\end{aligned}$$

Mol Asetil klorida = $3 \times 0.0016 \text{ mol}$
= 0.048 mol

$$\begin{aligned}\text{Volume Asetil Klorida} &= \frac{\text{mol} \times Mr}{\rho} \\ &= \frac{0.048 \text{ mol} \times 78.49 \text{ g/mol}}{1.1 \text{ g/ml}} \\ &= 3.42 \text{ ml}\end{aligned}$$

Remdesivir + Asetil Klorida		→	Derivat Remdesivir + HCl	
Awal=	0.0016 mol 0.048 mol		0 mol 0 mol	
Reaksi=	0.0016 mol 0.0016 mol		0.0016 mol 0.0016 mol	
<hr/>				
Sisa=	0 mol 0.0464 mol		0.0016 mol 0.0016 mol	

Massa molekul relative (Mr) Derivat Remdesivir (RDV-D2) = 686.659 g/mol

$$\begin{aligned}\text{Massa Teoritis Derivat Remdesivir (RDV-D2)} &= \text{mol} \times Mr \\ &= 0.0016 \text{ mol} \times 686.659 \text{ g/mol} \\ &= 1.09 \text{ gram}\end{aligned}$$

Massa Praktis Derivat Remdesivir (RDV-D2) = 0.8810 gram

$$\begin{aligned}\text{Rendamen (\%)} \text{ derivat remdesivir} &= \frac{0.8810 \text{ g}}{1.09 \text{ g}} \times 100\% \\ &= 80.8\%\end{aligned}$$