

**Supporting Information**

**Investigating the effect of *Aloe vera* gel on the buccal permeability of didanosine**

Elizabeth Ojewole<sup>1</sup>, Irene Mackraj<sup>2</sup>, Kamil Akhundov<sup>3</sup>, Josias Hamman<sup>4</sup>, Alvaro Viljoen<sup>4</sup>, Eugene Olivier<sup>4</sup>, James Wesley-Smith<sup>5</sup>, Thirumala Govender<sup>1</sup>

**Affiliation**

<sup>1</sup> School of Pharmacy and Pharmacology, University of KwaZulu-Natal, Durban, South Africa

<sup>2</sup> School of Medical Sciences, University of KwaZulu-Natal, Durban, South Africa

<sup>3</sup> Plastic Surgery Department, Centre Hospitalier Universitaire Vaudois CHUV, Lausanne, Switzerland

<sup>4</sup> Department of Pharmaceutical Sciences, Tshwane University of Technology, Pretoria, South Africa

<sup>5</sup> Electron Microscope Unit, University of KwaZulu-Natal, Durban, South Africa

**Correspondence**

***Prof. Thirumala Govender***

School of Pharmacy and Pharmacology

University of KwaZulu-Natal

Private Bag X54001, Durban

4000, KwaZulu-Natal

South Africa

Phone: +27/31/2607358

Fax: +27/31/2607792

govenderth@ukzn.ac.za

**Table 1S** Chemical composition of AVgel as determined by  $^1\text{H-NMR}$  [15].

Chemical	AVgel	
	Content (%)	Content (mg/L)
Aloverose	12.7	892.1
Glucose	16.7	1171.2
Malic acid	20.0	1403.4
Lactic acid	5.1	359.2
Citric acid	not detected	
WLM	detected	
Maltodextrin	not detected	
Acetic acid	not detected	
Succinic acid	trace	
Fumaric acid	not detected	
Formic acid	not detected	
Sodium benzoate	not detected	
Potassium sorbate	not detected	

**Fig. 1S**  $^1\text{H}$ -NMR spectrum of AVgel labeled with the main chemical constituents and markers [15].

