

NUCLEAR MAGNETIC RESONANCE (NMR) - Prices (In South African Rand)

An additional admin fee of 7% will be levied for both Academic and Industry clients.

Instrument access/hr	Self-run	Admin fee	Service fee/hr	Total			
Internal Standard ¹ H spectra (<15min. Else per hour rate)	R 58	R 0	Add R32	R90			
Internal rate	R168	R 0	Add R76	R244	For 2 or less experiments run overnight, only 3 hours charged. For 3 or more experiments, only four hours.		Full weekend charged for 8 hours only.
External Academic rate	R277	7%	Add R349	R626			
Commercial rate	R361	7%	Add R433	R794			
Professional time/hr*	*sample prep., plots, interpretation, report writing, consulting (initial discussions on project feasibility, structure elucidation or collaboration excluded)						
External Academic rate	R557						
Commercial rate	R1113						
Deuterated solvents (750 µl. ampule)	CDCl₃	CD₂Cl₂	CD₃OD	DMSO-d₆	D₂O	C₆D₆	Acetone-d₆
	R68	R472	R430	R245	R245	R210	R245
	Toluene-d₈	THF-d₈	TFA-d₁	Ethanol-d₆	Hexane-d₈	DMF-d₆	CD₃CN
	R 263	R 1070	R 367	R 3339	R 1113	R 943	R 337
Consumables	R 80						

FoodScreener NMR Prices			
Accredited Authentication prices (*)	Per sample		
Wine	R3000		
Fruit Juice	R3000		
Honey	R3000		
Botanical extract authentication	R3000	Read more	Commercial reference sample required
Please see information on accredited authentication methods.			

Examples of common Liquid State NMR Commercial Applications

- Biopolymers: such as PGLA, identification, monomer content and residual monomers
- Absolute Structure determination of purified organic compounds
- Speciation of Inorganic complexes
- Heparin: quality control using latest USP monograph testing for over sulphated chondroitin sulfate and other impurities
- Poloxamer: weight and % oxyethelene
- Chitosan: % deacetylation
- Silicone: polydimethylsiloxane
- Quantitative 13C NMR of polyethylene and polypropylene
- Quality control of Aloe Vera
- Polymer Tacticity
- Flavonoid identification
- Cannabis quantitative and qualitative analysis of cannabinoids

Test	Application	Monographs
	General NMR method	USP, EP 2.2.33, ASTM E386
Aloe Vera quality control	Origin of an extract and to distinguish between different plant sources	
Alginate	Chemical composition and sequential structure from 1H and 13C	ASTM F2259
Amyl Nitrite	1H Identification	USP
polypropylene, polyethylene	Quantitative 13C	
Buserelin	1H Identification	EP
Chitosan	% Deacetylation, 1H	ASTM F2260
Cod-liver Oil	13C Identification and positional Distribution ($\beta(2)$ -acyl) of fatty acids	EP

Enoxaparin	¹³ C Identification	USP
Fats and oils	¹ H, ¹³ C Determination of fatty acid composition in fats and oils	~
Gadoversetamine	Hydroxypropyl Betadex	USP
Polymer tacticity	Quantitative ¹³ C	~
Goserelin	¹³ C Identification	EP
Heparin	¹ H Identification and OSCS screening	USP, EP
Olis	¹³ C Distinction between plant and synthetic oils	
Hydroxypropyl Betadex	¹ H Molar Substitution	USP, EP
Lauromacrogol	¹³ C-Average chain length of fatty alcohols and moles of ethylene oxide	EP
Medronic Acid	¹ H Identification and Impurity determination	EP
Orphenadrine Citrate	¹ H-Isomer Content	USP
Simethicone	¹ H- Identification	~
Oxytocin	¹ H-Identification	USP
Proteins, peptides	2D, 3D Structure determination from various NMR experiments	
Plant extract complexity	Diffusion separation of components in solution (DOSY)	
Poloxamer	¹ H-Weight % Oxyethylene	USP
Polyoxyl 10 Lleyl Ether	¹ H-Average polymer length	USP
Poly lactide and glycolide	¹ H, ¹³ C- Identification, residual monomer, lactide/glycolide ratio	ASTM F2579, F1925, F2313
Polyoxyl 20 Cetostearyl Ether	¹ H-Average polymer length	USP
Salmon Oil	¹³ C-Identification and Positional Distribution ($\beta(2)$ -acyl) of fatty acids	EP
* Partly produced from NMR Spectroscopy in Pharmaceutical Analysis (B. Diehl, et al., 2008) and the various available Monographs		

***An additional admin fee of 7% will be charged to all external clients, both Academic and Industry.*

CD SPECTROMETER

Instrument access/hr.	Self -run	Submitted	
Internal rate	R210	R420	
Academic rate	R417	R555	
Commercial rate	R477	R695	
Professional time/hr.*			
	*sample prep., plots, interpretation, report writing, consulting (initial discussions on project feasibility, structure or collaboration excluded)		
External Academic rate	R557		
Commercial rate	R1113		
Analytical grade solvents available			
	Methanol	Acetonitrile	
	R60/ml	R60/ml	
N2 gas are charged at R100/hr			