

# LAGAVULIN

## Open-Access Experiment Submission Details

Experiment Code and Description	Price	Submission Rules	
PROTON – Quantitative 1H with 1 scan – 30 seconds	↑	↑	
1H SW=40 O1P=12 – 1H wide sweep width (+32 to -12ppm) and O1P of 12ppm, 32 scans – 3 minutes			
19F + QUICK 1H - 32 scan 19F decoupled + Quantitative 1 scan 1H – 1.5 minutes			
19F {1H} + QUICK 1H – 64 scan 19F proton coupled + Quantitative 1 scan 1H – 3 minutes			
31P + QUICK 1H – 32 scan 31P decoupled + Quantitative 1 scan 1H – 2 minutes 15 seconds	ALL	Submit up to <b>THREE</b> of these <b>SHORT</b>	
31P {1H} + QUICK 1H – 32 scan 31P proton decoupled + 64 scan 31P coupled + Quantitative 1 scan 1H – 5 minutes	£1.00	experiments in any	
31P WIDE SW + 1H – Quantitative 1 scan 1H + 64 scan 31P decoupled (wide SW) – 2 minutes 40 seconds	↓	one room visit	
11B – 128 scan baseline suppressed 11B + Quantitative 1 scan 1H – 2 minutes 40 seconds		↓	↓
7 Li + 1H – 32 scan 7Li proton coupled + Quantitative 1 scan 1H – 3.5 minutes			
1H + QUICK COSY – Quantitative 1 scan 1H + 2 scan short COSY, >10mg req. – 6.5 minutes			
<b>TO SUBMIT 1H AT NIGHT – SELECT TO SUBMIT OVERNIGHT QUANTITATIVE 1 SCAN 1H SAMPLES – 30 seconds</b>			
<b>WATER SUPPRESSION – USING EXCITATION SCULPTING FOR H2O-D2O SAMPLES – 128 scan excitation sculpted 1H – 10 minutes</b>	Maximum of <b>TWO</b> in any one room visit		
1H 13C DEPT – Quantitative 1 scan 1H, 64 scan 13C and 32 scan DEPT during day, >10mg required – 4.5 minutes	↑	↑	
1H + 11B + 11B{1H} + 31P – Quantitative 1 scan 1H, 64 scan 11B coupled, 64 scan 11B decoupled + 32 scan 31P decoupled – 11.5 minutes			
LONG 19F OVERNIGHT – 128 scan 19F decoupled, 256 scan 19F coupled + Quantitative 1 scan 1H – 13 minutes			
LONG 31P OVERNIGHT – 256 scan 31P decoupled, 512 scan 31P coupled + Quantitative 1 scan 1H – 33 minutes			
LONG 13C OVERNIGHT – 1024 scan 13C, 360 scan DEPT + 32 scan 1H – 1 hour 30 minutes	ALL	Submit just <b>ONE</b> of these <b>LONG/VERY LONG</b> experiments per overnight period	
ALUMINIUM – 128 scan 27Al coupled + Quantitative 1 scan 1H – 2 minutes	£2.00	↓	
1H + 31P + 7Li + 19F FOR CPG GROUP – Quantitative 1 scan 1H, 256 scan 31P decoupled, 32 scan 7Li coupled + 16 scan 19F decoupled – 32 minutes	↓		
QUICK CHARACTERISATION – 4 scan 1H, 2 scan COSY, 16 scan UDEFT, 2 scan HSQC + 2 scan Impact HMBC - <b>Concentrated samples only</b> – 14 minutes			
CHARACTERISATION – Quantitative 1 scan 1H, 256 scan 13C, 128 scan DEPT, 2 scan COSY, 2 scan HSQC + 2 scan HMBC <b>&gt;10mg required</b> – 1 hour 20 minutes		BOTH	Just <b>ONE</b> experiment per overnight period
NOESY FOR CONC. SAMPLES – Quantitative 1 scan 1H, 2 scan COSY + 4 scan NOESY (Mixing Time = 0.6s) <b>Concentrated samples only</b> – 1 hour 20 minutes	£4.00		