



## THE NATIONAL DEUTERATION FACILITY PRODUCT ANALYSIS CERTIFICATE

Product name:	Monoolein-d <sub>38</sub> (1-Oleoyl- <i>rac</i> -glycerol-d <sub>38</sub> )

AEL01078 and AEL01082 (NMR experiments: AEL01078

Lab book code: expt 1; AEL01082 expt 2, 3 and 4)

**Product structure:** 

DD4340 (2016-1) Proposal & round:

Batch number: CoA0915

**Quantity supplied:** Quantity: 2.1 g

Supplied to: Paul Butler and Thomas Cleveland

Date synthesised: 20/04/2015 Date tested: 24/04/2015

## **Product Information:**

Theoretical chemical formula:	$C_{21}H_2D_{38}O_4$
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Theoretical molecular weight: 394.53 g/mol (if 100%D)

Physical appearance: White solid at 0 °C

Store below 0 °C; store under inert gas; do not store Storage conditions:

in solution.

Stability: Stable under the recommended conditions. Chemical purity: Pure\* by NMR and TLC (TLC attached).

93.2% (±2%) overall (determined by MS analysis); Isotopic purity: 98.0% in the head; 1 92.5% (±2%) in the tail. 2

The following spectra are attached:

NMR:		¹H ■ ²H	13 <sub>C</sub>	Other (pl	ease specify)	
MS:						
FTIR:						
Other:		(Please Specify	')			
Comme	nts:	*Contains a s				

I migration occurs e of 88:12 of 1- to

2-substituted lipids when stored in solution for long periods of times.<sup>4</sup>

Product synthesised by: Dr Anna Leung

NDF Approval by: Dr Tamim Darwish