Example Laboratory Report Carbon 13

Client Details

Name: Your Company
Contact(s): Your Name

Sample Details

Number: 24 (12 patients)
Material: ^{13}C-UBT Sample Tubes

Sample Tracking

IA Reference No.: Our LIMS Code
Date of Arrival: 31st May 2007

Analysis Details

Isotope: $\delta^{13}C$
Method: CF-IRMS

Report Date: 1st June 2007

Patient I.D.	D.O.B.	Pre-Dose	Post-Dose	Difference
		$\delta^{13}C_{V\text{-}PDB}$ (‰)	$\delta^{13}C_{V\text{-}PDB}$ (‰)	Post - Pre (‰)
Female A	04.10.75	-27.31	-26.76	0.55
Female B	18.07.50	-27.40	-3.72	23.68
Female C	10.06.70	-26.45	-25.81	0.64
Female D	10.11.64	-25.04	-24.37	0.67
Female E	14.06.55	-24.72	-5.71	19.01
Female F	04.03.80	-26.47	-25.84	0.62
Female G	17.03.81	-26.33	-25.76	0.57
Female H	11.01.84	-26.14	-25.60	0.54
Male A	29.01.88	-25.51	-25.14	0.37
Male B	28.07.89	-26.01	-25.83	0.18
Male C	02.02.84	-23.66	-23.37	0.29
Male D	17.12.96	-25.97	-25.28	0.69

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Quality Control Check Samples

	IA-CO2-4 (4 % CO2) $\delta^{13}C_{V\text{-}PDB}$ (‰)	Operator's breath $\delta^{13}C_{V\text{-}PDB}$ (‰)
	-35.49	-22.78
	-35.68	-22.95
	-35.59	
	-35.60	
	-35.56	
Mean	-35.58	-22.86
St. Dev.	0.07	0.12
N	5	2
Accepted Value	-35.56	within expected range

The breath samples were analysed by continuous flow - isotope ratio mass spectrometry. The reference gas against which samples were analysed was 4 % CO2 in a helium balance with $\delta^{13}C_{V\text{-}PDB}$ value = -35.56 ‰. This reference gas has been calibrated against NBS19 ($\delta^{13}C_{V\text{-}PDB}$ = +1.95 ‰) which is distributed as an isotope reference standard by the International Atomic Energy Agency, Vienna.

The remaining untested duplicate sample tubes will be stored at Sercon Analytical and returned to you upon request. If you require any further information, please do not hesitate to contact us.

Analysed & Reported by:
Tanith Allwood, BSc.

Checked by:
Ian Begley, PhD

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