

Table S1: Inter-laboratory reproducibility for the beef muscle powder (NIST 8414) and the beef liver powder (NIST 1577b) Inter-Comparison Materials (SR = standard deviation of reproducibility).

	LGL	FEM	EFS	CSL	IFR	ISO	ARC	Mean	SR
NIST 8414									
$\delta(^{13}\text{C})$ (‰, vs V-PDB)	-25.2	-25.4	-25.5	-25.3	-25.2	-25.3	-25	-25.3	0.2
$\delta(^{15}\text{N})$ (‰, vs AIR)	6.8	6.8	6.6	6.7	6.5	6.4	6.8	6.7	0.2
$\delta(^2\text{H})$ (‰, vs V-SMOW)	-147	-146			-149	-143		-146	2.7
$\delta(^{34}\text{S})$ (‰, vs CDT)	5.1	5.4			5.3	5.3		5.3	0.1
NIST 1577b									
$\delta(^{13}\text{C})$ (‰, vs V-PDB)	-21.5	-21.6	-21.8	-21.4	-21.4	-21.5		-21.5	0.2
$\delta(^{15}\text{N})$ (‰, vs AIR)	7.6	7.8	7.4	7.5	7.5	7.3		7.5	0.2
$\delta(^2\text{H})$ (‰, vs V-SMOW)	-134	-131			-137	-130		-133	3.1
$\delta(^{34}\text{S})$ (‰, vs CDT)	7.5	8.0				7.6	7.1	7.6	0.4

LGL - Bayerisches Landesamt für Gesundheit und Lebensmittelsicherheit, 85764 Oberschleissheim, Germany

FEM - Fondazione Edmund Mach, 38096 San Michele all'Adige, Trento, Italy

EFS - Eurofins Scientific Analytics, BP 42301, 44323 Nantes Cedex 3, France

CSL - The Food and Environment Research Agency, York YO41 1LZ, United Kingdom

IFR - Institute of Food Research, Colney, Norwich NR4 7 UA, United Kingdom

ISO - Isolab GmbH, 85301 Schweitenkirchen, Germany

ARC - AIT Austrian Institute of Technology GmbH, 2444 Seibersdorf, Austria