

Reference materials for Stable Isotope analysis

A range of certified materials for EA-IRMS at three levels. Values for the interlaboratory comparison certified materials have been derived from an international study involving more than 25 laboratories. Certified materials have been derived from data from two or more instruments in a single testing organisation on two or more runs on different days. Uncertified working standards use data from a single instrument and are intended as 'in-run' references only.



Material	Form	Pack	Part No	$\sigma^{13}\text{C}$	$\sigma^{15}\text{N}$	$\sigma^{34}\text{S}$	$\sigma^{18}\text{O}$	$\sigma^2\text{H}$
Interlaboratory comparison Certified Isotopic reference materials:								
EMA-P1 polymer	Solid	3g	B2203	-27.8		-3.0	+21.0	-25.3
EMA-P2 polymer	Solid	3g	B2205	-28.2	-1.57		+26.9	-87.8
Certified Isotopic reference materials:								
Sediment	Solid	5g	B2151	-26.1	+4.4	+4.2*		
Soil	Solid	5g	B2153	-27.5	+6.7	+4.9*		
Protein (Casein)	Solid	5g	B2155	-27.0	+5.9	+6.3*		
Wheat flour	Solid	5g	B2157	-27.2	+2.8	-1.4*		
Sorghum flour	Solid	5g	B2159	-13.7	+1.6	+10.1*		
High enriched water	Liquid	25ml	B2190				+266.8	+1701.8
Medium enriched water	Liquid	25ml	B2191				+108.6	+843.4
Zero natural water	Liquid	25ml	B2192				+0.6	+4.9
Medium natural water	Liquid	25ml	B2193				-10.2	-62.0
Low natural water	Liquid	25ml	B2194				-19.6	-157.1
Uncertified 'working standards':								
Olive oil	Liquid	5g	B2172	-28.5				
Urea	Solid	5g	B2174	-39.7	-0.7			

All materials certified by reference to the appropriate IAEA Vienna SRMs. Approximate values given above, values vary from batch to batch. Full details are given on the certificate of analysis together with expanded uncertainty. Values marked * are uncertified and given for information only.

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