Iso-Analytical Laboratory Report

Client Details

Name: Your Company
Contact(s): Your Name
P.O. No.: Your Order Code

Sample Details

Number: 11
Material: Fruit extracts

Sample Tracking

IA Reference No.: Our LIMS Code Date of Arrival: 21st May 2007

Analysis Details

Isotope: Carbon-13 Method: EA-IRMS Report Date: 22nd May 2007 Analyst: Ian Begley

Sample Code	1st Replicate δ ¹³ C _{V-PBD} (‰)	2nd Replicate δ ¹³ C _{V-PBD} (‰)	Mean δ ¹³ C _{v-PBD} (‰)
P7-1	-24.46	-24.47	-24.47
P7-2	-24.59	-24.53	-24.56
P7-3	-26.15	-26.12	-26.14
P7-4	-22.73	-22.75	-22.74
P7-5	-25.14	-25.07	-25.10
P7-6	-15.66	-15.67	-15.67
P7-7	-19.24	-19.25	-19.25
P7-8	-25.86	-25.96	-25.91
P7-9	-21.82	-21.82	-21.82
P7-10	-18.96	-18.86	-18.91
P7-11	-25.80	-25.77	-25.78

Quality Control Check Samples

	IAEA-CH-6 (Sucrose) $\delta^{13}C_{V-PBD}$ (%)	IA-R005 (Beet Sugar) δ ¹³ C _{V-PBD} (‰)	IA-R006 (Cane Sugar) δ ¹³ C _{V-PBD} (‰)
	-10.39	-26.02	-11.67
	-10.42	-26.05	-11.64
	-10.42		
	-10.39		
Mean	-10.41	-26.04	-11.66
St. Dev.	0.02	0.02	0.02
Count	4	2	2
Accepted Value	-10.43	-26.03	-11.64

CONT.

Details of Analysis

 $2~\mu L$ aliquots of fruit extracts were pipetted into tin capsules and dried at 60 °C prior to analysis. Samples, reference materials and control standards were then analysed by continuous flow - isotope ratio mass spectrometry.

Reference Standards

The reference material used during analysis of the samples was to IAEA-CH-6 (sucrose), which has a $\delta^{13}\text{C}$ value of -10.43 % vs. V-PDB. Reference standards IAEA-CH-6, IA-R005 (Iso-Analytical beet sugar, $\delta^{13}\text{C}$ = -26.03 % vs. V-PDB, traceable to IAEA-CH-6), and IA-R006 (Iso-Analytical cane sugar, $\delta^{13}\text{C}$ = -11.64 % vs. V-PDB, traceable to IAEA-CH-6) were measured for quality control purposes during analysis of the samples. IAEA-CH-6 is distributed as an isotope inter-comparison standard by the International Atomic Energy Agency.

Unless the return of samples is requested, they will be stored at Iso-Analytical for a minimum of 3 months before disposal.

If you require any further information regarding this analysis, please do not hesitate to contact us.

Reported By: Checked By:

Ian Begley, PhD

Steve Brookes, PhD

Iso-Analytical Limited Millbuck Way Sandbach Cheshire CW11 3HT UK

Tel.: +44 (0)1270 766771 Fax.: +44 (0)1270 766709 E-Mail: info@iso-analytical.com