

Center for Applied Isotope Studies

August 30, 2016

Listed below are the results for the Radiocarbon ( $^{14}\text{C}$ ) and Stable Isotope Ratio ( $\delta^{13}\text{C}$  and  $\delta\text{D}$ ) analysis for the sample received by our laboratory August 3, 2016.

Sample	Lot	$^{14}\text{C}$	$\pm 1 \sigma$	$\delta^{13}\text{C}$	$\pm 1 \sigma$	$\delta\text{D}$	$\pm 1 \sigma$
Turmeric extract	VH/CUR-G/F216179	13.87	0.09	-29.35	0.02	-66	2
Turmeric extract	VH/CUR-G/F216180	13.87	0.09	-29.21	0.07	-70	3

$^{14}\text{C}$  activity is in disintegrations per minute per gram carbon (dpm/g C). ( $\pm 1 \sigma$ )

$\delta^{13}\text{C}$  ( $^{13}\text{C}/^{12}\text{C}$ ) is in parts per mil (‰) relative to the international standard PDB. ( $\pm 1 \sigma$ )

$\delta\text{D}$  (D/H) is in parts per mil (‰) relative to the international standard V-SMOW. ( $\pm 1 \sigma$ )

The  $^{14}\text{C}$  activity of Turmeric extract Lot VH/CUR-G/F216179 and Turmeric extract Lot VH/CUR-G/F216180 are equivalent to 99% of the 2015 and present day  $^{14}\text{C}$  reference activity 14.0 dpm/gC. This indicates no addition or dilution with fossil fuel derived material to these two samples.

If we can be of any further assistance, or if you would like to discuss these results please do not hesitate to call.

Sincerely,



Associate Director

