



Report for Health Forever Products Limited

Sample ID	Brunswick Lab ID	ORAC _{hydro} * (μ moleTE/g)	Phenolics ¹ (mg/g)
Jobelyn Sample Jobelyn 21/07/2006	06-3017	3,123	106.86

*The ORAC analysis provides a measure of the scavenging capacity of antioxidants against the peroxy radical, which is one of the most common reactive oxygen species (ROS) found in the body. ORAC_{hydro} reflects water-soluble antioxidant capacity.

Trolox, a water-soluble Vitamin E analog, is used as the calibration standard and the ORAC result is expressed as micromole Trolox equivalent (TE) per gram.

¹ The phenolic result is expressed as milligram gallic acid equivalent per gram.

The acceptable precision of the ORAC assay is 15% relative standard deviation.ⁱ

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Sample ID	Brunswick Lab ID	COX-1 IC ₅₀ (mg/ml)	COX-2 IC ₅₀ (mg/ml)	Ratio: $\frac{\text{COX-1 IC}_{50}}{\text{COX-2 IC}_{50}}$
Jobelyn Sample Jobelyn 21/07/2006	06-3019	0.03	0.39	0.077

Cyclooxygenase(COX) activity was measured at 37° C by monitoring oxygen consumption using an Oxytherm Electrode Unit by Hansatech. IC₅₀ is equal to the concentration of the sample that inhibits 50% of the activity of the enzyme under the assay conditions.

It is believed that selective inhibitors of COX-2 relieve pain and inflammation without causing gastrointestinal side effects.

Testing performed by K. Pappalardo.

Approved by: _____
Boxin Ou, PhD.
Vice President

B-4793b / 8-29-06 lrh

Samples will be discarded one month from report date, unless otherwise notified by customer in writing.



Sample ID	Brunswick Lab ID	HORAC² (μ mole CAE/g)	NORAC³ (μ mole TE/g)	SOD₄ (kunitSODeq/g)
Jobelyn Lot # 12-2006 Rat 1:20	06-4111	270	244	
Jobelyn Herb Lot# 12-2005 RAT 1:20	06-4812	348	185	31.8
Jobelyn Herb Lot# 12-2006 RAT 1:50	06-4813	255	152	Not Requested

ⁱ Ou, B; Hampsch-Woodill, M.; Prior, R. L.; Development and Validation of an Improved Oxygen Radical Absorbance Capacity Assay using Fluorescein as the Fluorescent Probe. Journal of Agricultural and Food Chemistry. ; **2001**; 49(10); 4619-4626