

Report for Health Forever Products Limited

Sample ID	Brunswick Lab ID	ORAC _{hydro} * (μmoleTE/g)	ORAC _{lipo} ^ (μmoleTE/g)	ORAC _{total} (μmoleTE/g)	Phenolics ¹ (mg/g)
Jobelyn Lot # 12-2006 Rat 1:20	06-4111	2,511	261	2,772	106.35
Jobelyn Sample Lot # 08-2006 Rat 1:5	06-3017	3,123		3,123	106.86
Jobelyn Herb Lot# 12-2005 RAT 1:20	06-4812	1,877	199	2,076	100.72
Jobelyn Herb Lot# 12-2006 RAT 1:50	06-4813	1,677	161	1,838	93.80

*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 and the ^ ORAC_{lipo} is the lipid 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.¹⁻²

Sample ID	Brunswick Lab ID	HORAC ² (μmole CAE/g)	NORAC ³ (μmole TE/g)	SOD ₄ (kunitSODEq/g)
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
Jobelyn Lot # 12-2006 Rat 1:20	06-4111	270	244	

*Caffeic Acid is used as the calibration standard and the HORAC result is expressed as μmole Caffeic Acid equivalent(CAE) per gram.

^ Trolox is used as the calibration standard and the NORAC result is expressed as μmole Trolox equivalent (TE) per gram.

Testing performed by K. Pappalardo and J. Theobald.

Approved by: _____
Boxin Ou, PhD.
Vice President

B-5053a / 11-13-06 lrh

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

¹ 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

² Huang, D.; Ou, B.; Hampsch-Woodill, M.; Flanagan, J.; Deemer, E. K.; Development and Validation of Oxygen Radical Absorbance Capacity Assay for Lipophilic Antioxidants using Randomly Methylated α -Cyclodextrin as the Solubility Enhancer. Journal of Agricultural and Food Chemistry.; **2002**, 50(7); 1815-1821.

QC TABLE OF COMPOUNDS IN SAMPLES

Lot No	BL ID No.	Conc. ($\mu\text{g/g}$)				
		Apigeninidin	Luteolinidin	Apigenin	Luteolin	Naringenin
12-2003	06-4107	14,650	216	3,695	530	151
12-2005	06-4108	23,950	328	5,100	715	244
12-2006 RAT 1:5	06-4109	22,950	229	3,770	396	90.0
12-2006 RAT 1:10	06-4110	27,650	286	4,770	570	122
12-2006 RAT 1:20	06-4111	31,900	331	5,300	640	149
12-2006 New Pot	06-4112	21,850	168	2,975	218	71.0
12-2005 RAT 1:20	06-4812	38,650	323	6,020	585	230
12-2006 RAT 1:50	06-4813	29,850	170	4,050	339	118