

Certificate of Analysis

Royal Rose, LLC

 1120 Growers Street
 Salinas California 93901 United States


Testing Cert #2918.01

Sample Name:	Radicchio (Chicory/Vegetable)	Covance Sample:	1157948
Project ID	ROYAL_ROSE-20120117-0001	Receipt Date	13-Jan-2012
PO Number	Charge - AMEX	Receipt Condition	5 (+/- 3) degrees Celsius
Sample Serving Size	86 g	Login Date	17-Jan-2012
		Storage Condition	5 (+/- 3) degrees Celsius
		Number Compositd	10

Analysis	Result	Result per Serving	Result per Daily Value
Soluble Fiber			
Soluble Fiber	1.29 g/100g	1.11 g/Serving Size	
Insoluble Fiber			
Insoluble Fiber	1.95 g/100g	1.68 g/Serving Size	
Total Dietary Fiber	3.24 g/100g	2.79 g/Serving Size	11.1% Daily Value US
Total Vitamin A *			
Total Vitamin A	222 IU/100g	191 IU/Serving size	
Vitamin A as Retinol			
Vitamin A from Retinol	<100 IU/100g	<86.0 IU/Serving size	<1.72% Daily Value US
Vitamin A from Carotenes *			
Vitamin A From Carotene	222 IU/100g	191 IU/Serving size	3.82% Daily Value US
Carotenes			
Beta Carotene	0.133 mg/100g	0.114 mg/Serving Size	
Vitamin C			
Vitamin C	7.2 mg/100g	6.2 mg/Serving Size	10% Daily Value US
Vitamin K1 *			
Vitamin K1	22.9 mcg/100g	19.7 mcg/Serving Size	24.6% Daily Value US
Thiamin			
Thiamin	0.04 mg/100g	0.03 mg/Serving Size	2% Daily Value US
Riboflavin			
Riboflavin	0.43 mg/100g	0.37 mg/Serving Size	22% Daily Value US
Chlorophyll *			
Chlorophyll a	<0.010 %		
ORAC *			
ORAC - Lipophilic	0.555 umol TE/g		
ORAC-Hydrophilic	9.95 umol TE/g		
Total Orac	10.5 umol TE/g		

Method References	Testing Location
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Carotenes (CAR1_S:13)
Covance Laboratories Inc.

Official Methods of Analysis of AOAC INTERNATIONAL (2005), 18th Ed., AOAC INTERNATIONAL, Gaithersburg, MD, USA, Official Method 941.15, 2005.07 (Modified).

 Quackenbush, F. W., Journal of Liquid Chromatography, 10:643-653, (1987).
 (Modified)

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Chlorophyll (MISC_4016:2) Vonshak.A.(1997).Spirulina platensis (Arthrospira) Physiology, cell-biology and biotechnology.214.(modified).	Covance Laboratories Inc.
Insoluble Fiber (IDFL_S:8) Official Methods of Analysis of AOAC INTERNATIONAL 18th Ed., Method 991.43 AOAC INTERNATIONAL, Gaithersburg, MD, USA, (2005). (Modified)	Covance Laboratories Inc.
ORAC (ORAC_S:4) Journal of Agricultural and Food Chemistry (2003)3272-3279.	Covance Laboratories Inc.
ORAC (ORLP_S:5) Journal of Agricultural and Food Chemistry (2003)3272-3279.	Covance Laboratories Inc.
Riboflavin (B2FV_S:10) Official Methods of Analysis of AOAC INTERNATIONAL, 18th Ed., Methods 940.33 and 960.46, AOAC INTERNATIONAL, Gaithersburg, MD, USA, (2005). The United States Pharmacopeia, 29th Ed., p. 1913, United States Pharmacopeial Convention, Inc.: Rockville, Maryland (2005).	Covance Laboratories Inc.
Soluble Fiber (SDFL_S:9) Official Methods of Analysis of AOAC INTERNATIONAL 18th Ed., Method 991.43, AOAC INTERNATIONAL, Gaithersburg, MD, USA, (2005). (Modified)	Covance Laboratories Inc.
Thiamin (BIDE_S:6) Official Methods of Analysis of AOAC INTERNATIONAL, 18th Ed., Methods 942.23, 953.17, and 957.17, AOAC INTERNATIONAL, Gaithersburg, MD, USA, (2005).	Covance Laboratories Inc.
Total Vitamin A (VAT_CALC:9) Calculation on request.	Covance Laboratories Inc.
Vitamin A as Retinol (VALC_S:9) Official Methods of Analysis of AOAC INTERNATIONAL, 18th Ed., Methods 2001.13, 992.04, AND 992.06, AOAC INTERNATIONAL, Gaithersburg, MD, USA, (2005). (Modified)	Covance Laboratories Inc.
Vitamin A from Carotenes (BCAV_S:5) Official Methods of Analysis of AOAC INTERNATIONAL, 18th Ed., Methods 945.74 and 960.46, AOAC INTERNATIONAL, Gaithersburg, MD, USA, (2005)	Covance Laboratories Inc.
Vitamin C (VCF_S:5) Official Methods of Analysis of AOAC INTERNATIONAL, 18th Ed., Method 967.22, AOAC INTERNATIONAL, Gaithersburg, MD, USA, (2005). (Modified)	Covance Laboratories Inc.

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Method References**Testing Location****Vitamin K1 (VKTK_S:2)****Covance Laboratories Inc.**

Official Methods of Analysis of AOAC International, 18th Edition,
Method 999.15, AOAC International: Gaithersburg, Maryland, (2005).

Testing Location(s)**Released on Behalf of Covance by****Covance Laboratories Inc.****Lori Ross - Associate Director**

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