



TKB TRADING, LLC  
 1101 9th Avenue  
 Oakland, CA 94606  
 Tel: 510-922-9027  
 www.tkbtrading.com

**Certificate of Analysis**  
**(Representative Sample Certificate)**

Product Name                    Gemtone Ruby

Batch /Lot                        Not available (data may vary slightly with different lots or batches)

Manuf.Oate                        Not available

Characteristic	Result	UOM	----Specification----	
			Minimum	Maximum
Mica	52.60	%	44.00	65.00
TiO2	30.90	%	25.00	36.00
Fe2O3	15.60	%	10.00	17.00
Carmine	1.00	%	0.50	2.50
pH	7.80		6.00	11.00
TS	99.60	%		
Bulk Color	Pass			
Appearance	Pass			
Antimony	PASS<2 PPM			
Arsenic	PASS<3 PPM			
Barium	PASS<200 PPM			
Cadmium	PASS<1 PPM			
Chromium	PASS<100 PPM			
Cobalt	PASS<50 PPM			
Copper	PASS<50 PPM			
Lead	PASS<10 PPM			
Mercury	PASS<1 PPM			
Nickel	PASS<100 PPM			
Selenium	PASS<10 PPM			
Zinc	PASS<200 PPM			
Pseudo. aeruginosa	PASS:NEGATIVE			
Staph. aureus	PASS:NEGATIVE			
gm negative bacteria	PASS:NEGATIVE			
Yeast & mold	PASS<100 cfu/g			
Aerobic bacteria	PASS<100 cfu/g			
E.coli	PASS:NEGATIVE			
Production Master Standard:	F23542			
Best Before Date		Not available		

Comments :

\*\*\*Note: Trace metal results for batches manufactured after 17, Oct. 2014, reflect total product analysis.\*\*\*

The information contained herein is based either on analytical tests of samples or on statistical process data; it is intended solely for purposes of comparison with the established specifications for the product. Warranties of the product are exclusively as set forth in the applicable contract documents.

THIS CERTIFICATE OF ANALYSIS HAS BEEN PRODUCED ELECTRONICALLY AND IS VALID WITHOUT A SIGNATURE.



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The color additive component in the product meets with applicable US FDA (21 CFR), China Hygienic Standard for Cosmetics (ver. 2007), and EU Cosmetic Regulation EC/1223/2009 specifications and purity criteria. We recommend that appropriate use be confirmed against each region's current cosmetic regulations governing color additives.

Organic Colorant: None other than Carmine

Some data may be indicative of a QC Batch.