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

**Supplier** TKB TRADING, LLC  
**Product Description** BROWN OXIDE  
**Lot Number:** Not available (data may vary slightly with different lots or batches)  
**Usage Decision date** n/a  
**COA Issue Date** n/a

Test	Method	Result	Units	Specifications	
				Min	Max
8256 - CieLAB delta A		-0.487		-1.000	1.000
8256 - CieLAB delta B		-0.674		-1.000	1.000
8256 - CieLAB delta E		0.831		0.000	1.400
8256 - CieLAB delta L		0.004		-1.000	1.000
8266 - CieLAB Strength		98.616		95.000	105.000
8A36 - Arsenic		< 3.00	ppm	0.00	3.00
8A36 - Barium		< 50.00	ppm	0.00	50.00
8A36 - Cadmium		< 1.00	ppm	0.00	1.00
8A36 - Chromium		< 100.00	ppm	0.00	100.00
8A36 - Copper		< 50.00	ppm	0.00	50.00
8A36 - Lead		< 10.00	ppm	0.00	10.00
8A36 - Mercury		< 1.00	ppm	0.00	1.00
8A36 - Nickel		< 200.00	ppm	0.00	200.00
8A36 - Zinc		< 100.00	ppm	0.00	100.00
8A36 - Water Solubles		0.210		0.000	1.000
8A36 - Organic Color Test		Pass			
8A36 - Microbiology Test		Pass			
Expiration date, shelf life		3650 days			

COLORANT MEETS ALL REQUIREMENTS OF US CFR TITLE 21, PARTS 70-82 AND EU REGULATION (EC) 1223/2009, ANNEX IV. FOR COLORING AGENTS WITH NUMBER PRECEDED BY THE LETTER E IN ANNEX IV, COLORANT IS COMPLIANT WITH COMMISSION REGULATION (EU) 231/2012. COA IS COMPUTER GENERATED AND THEREFORE VALID WITHOUT SIGNATURE.

The above results were obtained using test methods believed to be correct in every detail. TKB Trading does not guarantee the duplication of these results by others due to circumstances beyond our control. TKB Trading does not assume any legal responsibility for these products and these products are purchased at the buyer's risk. This certificate of analysis was created electronically and therefore carries no signature.