



OPTISHARP (ZEAXANTHIN) 5% CWS/S-TG

Certificate for Customer

Productcode : 5003563

CFC Number : 02059263
Articlecode : 5003563368
Sales Name :
Manufacturing Date : 27-OCT-2011
Best Use Before Date : 26-OCT-2014

Comment : **Quantity Shipped:** 100.000KG

Thank you for your order and continued business.

DSM Nutritional Products is committed to delivering superior quality products and excellent services for our valued customers.

If you have any questions, please contact our Account Service Center at 1-800-526-0189

Our webshop provides 24/7 access to the products and services of DSM Nutritional Products. Visit our website at:

<http://unlimitednutrition-na.dsm.com>

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Test	Result	Limits / Specifications	Dimension / Units
Appearance visual	free-flowing particles	free-flowing particles	
Colour visual	reddish	reddish red	
Fineness (US standard sieves):			
- through sieve No. 20 / USP riddle screen sieving	100	min. 100	%
- through sieve No. 40 / USP riddle screen sieving	90	min. 85	%
- through sieve No. 100 / USP riddle screen sieving	0	max. 15	%
Loss on drying IR-drying	5	max. 8	%
Dispersibility in water Dispersibility in water at 20°C	dispersible	dispersible	
Assay Zeaxanthin Photometer	5.6	min. 5	%
Colour Intensity of aqueous dispersion Photometer: A (1%/1cm) at maximum	79	min. 50	
Heavy metals Method II / Ph.Eur	corresponds*	max. 10	ppm
Arsenic AAS	corresponds*	max. 3	ppm
Microbiological purity			
Aerobic bacteria Ph.Eur.	<1000	max. 1000	CFU/g
Yeast and molds Ph.Eur.	<100	max. 100	CFU/g
Enterobacteria Ph.Eur.	<10	max. 10	CFU/g
Escherichia coli Ph.Eur.	negative in 10g	negative in 10g	
Salmonella spp. Ph.Eur.	negative in 25g	negative in 25g	
Staphylococcus aureus Ph.Eur.	negative in 10g	negative in 10g	
Pseudomonas aeruginosa Ph.Eur.	negative in 10g	negative in 10g	

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*) checked at regular intervals

This lot was analysed and released by our authorized Quality Control Department and was found to meet the specifications as given above.

DSM Nutritional Products Ltd
The Quality Assurance Manager



Gaessler Martina
