



**StardustColors SAS**  
ZA Tesan Le Plan Sud  
30126 St Laurent des Arbres  
France  
[info@stardustcolors.com](mailto:info@stardustcolors.com)

## Certificate of Analysis

Product Name:

Sodium yttrium Fluoride doped with Ytterbium and Erbium (NaYF<sub>4</sub>:Yb,Er)

**Product Number:** 756555  
**Batch Number:** 2104GLY10  
**Brand:** STARDUST  
**CAS Number:** 753489-02-0  
**Formula:** NaYF<sub>4</sub>:Yb,Er  
**Formula Weight:** 207.07 g/mol  
**Quality Release Date:** 14 JAN 2015

Test	Specification	Result
Appearance (Color)	White to Off White	Off-White
Appearance (Form)	Powder	Powder
X-Ray Diffraction	Conforms to Structure	Conforms
Size (d50)	1 - 5 micron	3 micron
UV Excitation Source 940-980 nm	Conforms	Conforms
ICP Major Analysis Confirms Na, Y, F, Yb, Er Components	Confirmed	Confirmed
Trace Metal Analysis	≤ 20000.0 ppm	6609.1 ppm
Aluminum (Al)		6000.0 ppm
Boron (B)		0.2 ppm
Barium (Ba)		65.0 ppm
Calcium (Ca)		320.0 ppm
Chromium (Cr)		1.1 ppm
Copper (Cu)		1.9 ppm
Iron (Fe)		12.0 ppm
Potassium (K)		30.0 ppm
Lithium (Li)		0.8 ppm
Magnesium (Mg)		110.0 ppm
Manganese (Mn)		0.6 ppm
Nickel (Ni)		0.4 ppm
Lead (Pb)		0.7 ppm
Strontium (Sr)		55.0 ppm
Titanium (Ti)		2.0 ppm

StardustColors warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at [Stardustcolors.com](http://Stardustcolors.com). For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.



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## Certificate of Analysis

**Product Number:** 756555  
**Batch Number:** MKBT3445V

Test	Specification	Result
Vanadium (V)		0.1 ppm
Zinc (Zn)		5.2 ppm
Zirconium (Zr)		4.2 ppm
Purity 99% Based On Trace Metals Analysis	Meets Requirements	Meets Requirements

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