

DyStar Global Holdings – Singapore Pte. Ltd
1A International Business Park
#10-01, Singapore 609933
Republic of Singapore

Certificate of Analysis

According to EN 10204 3.1

| | | | | | |
|--------------------|----------------------------|-----------------------------|------------|-------------------|------------|
| Product: | FD&C Yellow No. 5 Granular | Date of Manufacture: | 05/11/2017 | Test Date: | 05/11/2017 |
| Product No: | 1G4400-BXSM | Date Code: | C0511171 | | |
| Batch: | AX7480 | Date of Expiry: | 05/10/2022 | | |

| Test | Test Procedure/Parameters | Specifications | Result/Dimensions |
|--------------------------------|---------------------------|----------------|-------------------|
| % Pure Color | PURE COLOR | 89.00-100.00% | 91.00% |
| % Volatiles | VOLATILES | 0.00-11.00% | 3.04% |
| % NaCl | NACL | 0.00-11.00% | 5.33% |
| % Na2SO4 | NA2SO4 | 0.00-11.00% | 0.10% |
| % Insoluble material | INSOLUBLES | 0.00-0.20% | 0.00% |
| % Sulfanilic Acid | SULFANILIC | 0.00-0.20% | 0.02% |
| % Ethyl Ester of Pyrazolone | ET ES PURA | 0.00-0.10% | 0.02% |
| % Pyrazolone T | PYRAZOL T | 0.00-0.20% | 0.05% |
| % DAADBSA | DAADBSA | 0.00-0.10% | 0.02% |
| % Lower Sulfonated Sub. Color | LOWER SULF | 0.00-0.50% | 0.20% |
| % Ester of Color | ESTER/COLR | 0.00-1.00% | 0.20% |
| % Peak 5 | PEAK 5 | 0.00-1.00% | 0.20% |
| Lead in ppm | Lead less than 10 ppm | | <2 |
| % Peak 7 | PEAK 7 | 0.00-1.00% | 0.20% |
| Arsenic in ppm | Arsenic less than 3 ppm | | <1 |
| Aniline ppb | ANILINE | 0-100ppb | 28 ppb |
| Benzidine ppb | BENZIDINE | 0-5ppb | 5 ppb |
| Mercury in ppm | Mercury less than 1 ppm | | <1 |
| 4-Aminobiphenyl ppb | 4-AMINBIPH | 0-5ppb | 5 ppb |
| 4-Aminoazobenzene ppb | 4-AMINAZOB | 0-75ppb | 5 ppb |
| Aerobic Plate Count cfu/g | APC-TOTAL | 0-999 cfu/g | 10 cfu/g |
| Yeast & Mold total count cfu/g | YEAST&MOLD | 0-99 cfu/g | 10 cfu/g |
| Gram Negative Bacteria Test | GM NEG BAC | Pass | Pass |
| DHD Reference Number | DHD REF NO | | HT51693 |
| FDA Certification Number | CERT NO | | AX7480 |
| Physical Appearance | PHYS APP | Pass | Pass |

DyStar LP

2235 Langdon Farm Road
Cincinnati, OH 45237
Phone: 800-477-1022
Fax: 513 441 3771
www.DyStar.com

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|--------------------|----------------------------|-----------------------------|------------|-------------------|------------|
| Product: | FD&C Yellos No. 5 Granular | Date of Manufacture: | 05/11/2017 | Test Date: | 05/11/2017 |
| Product No: | 1G4400-BXSM | Date Code: | C0511171 | | |
| Batch: | AX7480 | Date of Expiry: | 05/10/2022 | | |

Manufactured at 2235 Langdon Farm Rd, Cincinnati, OH 45237 USA

This batch of color additive is an FDA approved color additive that has been certified by the FDA. The use of this color additive is subject to the terms, conditions, and restrictions set forth in the Federal Food Drug and Cosmetic Act and the regulations listed within.

FD&C Yellow No. 5 is certified by the FDA for use in Food, Drugs, and Cosmetics consistent with Good Manufacturing Practices. In Drugs and Cosmetics - including those intended for use in the area of the eye. The name of the color additive MUST appear on the label of the final product

The information does not release the user from the inspection of the goods received. Quality Control Plant:

DyStar Hilton Davis

Factory expert: Peggy Roundtree

2235 Langdon Farm Rd, Cincinnati, OH 45237 USA

A Company Reg. No. 200922409R



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