



CERTIFICATE OF ANALYSIS

Chemical Name: RED IRON OXID	Batch Number: FD&C 24014	Date of Manufacture: 10/2019 Expiry Date: 10/2021
C.I NO: 77491	CAS.NO: 1309-37-1	COLOR: RED PRODUCT FROM: DRY POWDER

CHEMICAL PROPERTIS			
Density (g/cm3):	5.24	Oil absorption (ml/100):	30-76
Tint (%):	95-105	Moisture (%):	≤2.0
Water - soluble matter (%):	≤1.0	Tail over (80 mesh):	≤2.0
PH Value:	6.5 - 7.5		

	Min	Max	Result
ASSAY (as fe2o3 calated on ignition basis)	97%		
WATER SOLUBLE MATTER		1.0%	
ACID INSOLUBLE MATTER		0.1	
ARSENIC		3ppm	
BARIUM		50	
CADMIUM		1	
CHROMIUM		100	
COPPER		50	
LEAD (pb)		10	
MERCURY		1	
NICKEL		100	
ZINC		100	
FASTNESS TO LIGHT	1	8	
EXPIRATION DATE			2 YEARS AFTER PRODUCTION

Analysis according USP

TECHNICAL MANAGER	ENG. AHAD MORADGHOLI
QUALITY CONTROL MANAGER	Dr. SAFOURA BAKHTIARI



CERTIFICATE OF ANALYSIS

Chemical Name: BLACK IRON OXID	Batch Number: FD&C 24013	Date of Manufacture: 08/2019 Expiry Date: 08/2021
C.I NO: 77499	CAS.NO: 1317-61-9	COLOR: BLACK PRODUCT FROM: DRY POWDER

CHEMICAL PROPERTIS			
Density (g/cm3):	4.79	Oil absorption (ml/100):	30-76
Tint (%):	95-105	Moisture (%):	≤2.0
Water - soluble matter (%):	≤1.0	Tail over (80 mesh):	≤2.0
PH Value:	6.25 - 7.25		

	Min	Max	Result
ASSAY (as fe2O3 calated on ignition basis)	97%		99.9%
WATER SOLUBLE MATTER		1.0%	<1.0%
ACID INSOLUBLE MATTER		0.1	<0.1%
ARSENIC		3ppm	0.9 ppm
BARIUM		50	Less than 50 ppm
CADMIUM		1	Less than 1 ppm
CHROMIUM		100	Less than 100 ppm
COPPER		50	Not detected
LEAD (pb)		10	<10 ppm
MERCURY		1	<0.05 ppm
NICKEL		100	<100 ppm
ZINC		100	<100 ppm
FASTNESS TO LIGHT	1	8	7-8
IDENTIFICATION		TO RASS TEST	
CERTIFIED HALAL			
EXPIRATION DATE			2 YEARS AFTER PRODUCTION

Analysis according USP

TECHNICAL MANAGER	ENG. AHAD MORADGHOLI
QUALITY CONTROL MANAGER	Dr. SAFOURA BAKHTIARI



CERTIFICATE OF ANALYSIS

Chemical Name: FD&C Lake Ponceau 4R	Batch Number: FD&C 24007	Date of Manufacture: 10/2019 Expiry Date: 10/2021
C.I NO: 16225: 1	CAS.NO: 2611-82-7	COLOR: RED

	Limits	Result	Units
Analyte	24	23.9	%
Pure Dye Content	24	24	%
Tartrate Buffer Titration	0.2	<0.2	%
Ether soluble Matter	0.5	0.42	ppm
HCL Insoluble matter	3.00	Less than 3.00	ppm
Arsenic	10.00	Less than 10.00	ppm
Lead	1.00	Less than 1.00	%
Mercury	2	<2	
Chloride & Sulfate			

TECHNICAL MANAGER	ENG. AHAD MORADGHOLI
QUALITY CONTROL MANAGER	Dr. SAFOURA BAKHTIARI



CERTIFICATE OF ANALYSIS

Chemical Name: YELLOW IRON OXID	Batch Number: FD&C 24011	Date of Manufacture: 08/2019 Expiry Date: 11/2021
C.I NO: 77492	CAS.NO: 1317-61-9	COLOR: YELLOW PRODUCT FROM: DRY POWDER

CHEMICAL PROPERTIS			
Density (g/cm3):	5.12	Oil absorption (ml/100):	30-76
Tint (%):	95-105	Moisture (%):	≤2.0
Water - soluble matter (%):	≤1.0	Tail over (80 mesh):	≤2.0
PH Value:	6.5 - 7.5		

	Min	Max	Result
ASSAY (as Fe ₂ O ₃ calated on ignition basis)	97%		99.3%
WATER SOLUBLE MATTER		1.0%	<1.0%
ACID INSOLUBLE MATTER		0.1	<0.1%
ARSENIC		3ppm	2.13 ppm
BARIUM		50	Less than 50 ppm
CADMIUM		1	Less than 1 ppm
CHROMIUM		100	Less than 100 ppm
COPPER		50	Not detected
LEAD (pb)		10	0.53 ppm
MERCURY		1	<0.05 ppm
NICKEL		100	<100 ppm
ZINC		100	<100 ppm
FASTNESS TO LIGHT	1	8	7-8
EXPIRATION DATE			2 YEARS AFTER PRODUYION

Analysis according USP

TECHNICAL MANAGER	ENG. AHAD MORADGHOLI
QUALITY CONTROL MANAGER	Dr. SAFOURA BAKHTIARI

● کاربرد: صنایع دارویی مانند قرص، صنایع غذایی، صنایع بهداشتی، تولید لوازم آرایشی



CERTIFICATE OF ANALYSIS

Chemical Name: Brilliant Blue FCF FD&C Blue No. 1*	Batch Number: 23070	Date of Manufacture: 06/2018 Expiry Date: 06/2020
C.I NO: 42090	CAS.NO: 3844-45-9	COLOR: Blue

	Min	Max	Result
Total color	85%		86.5%
Appearance			Violet Powder
Solubility			Water, ethanol
Sum of Volatile matter at 135°C		5.00%	1.48%
Sodium Chloride / Sulphate		10%	10%
Water insoluble matter		0.2%	<0.2%
Unsulfurated primary aromatic amines		0.01%A	Less than 0.01 %
Organic Compounds other than coloring Matters		1.00%	0.92%
Leuco Base		5.00%	3.78%
Humidity		0.5%	<0.5%
Subsidiary		5.0%	<5.0%
Ether Extractable matter		0.2%	<0.2
Arsenic (As)		3.00 ppm	Less than 3.00 ppm
Cadmium (Cd)		1.00 ppm	Less than 1.00 ppm
Lead (Pb)		2.00 ppm	Less than 2.00 ppm
Mercury		1.00 ppm	Less than 1.00 ppm

Analysis according USP, In House

TECHNICAL MANAGER	ENG. AHAD MORADGHOLI
QUALITY CONTROL MANAGER	Dr. SAFOURA BAKHTIARI



CERTIFICATE OF ANALYSIS

Chemical Name: INDIGO CARMINE FD&C BLUE 2	Batch Number: FD&C 23075	Date of Manufacture: 06/2018 Expiry Date: 06/2020
C.I NO: 73015	CAS.NO: 860-22-0	COLOR: Blue

	Min	Max	Result
Total color	85%		87%
Appearance			Blue Powder
Solubility			Water, ethanol
Sum of Volatile matter at 135°C		5.00%	3.09%
Sodium Chloride / Sulphate		10%	9.18%
Water insoluble matter		0.2%	<0.2%
Combined ether extracts		0.2%	0.2%
Unsulfurated primary aromatic amines		0.01%	Less than 0.01 %
Organic Compounds other than coloring Matters		1.00%	0.84%
Subsidiary dyes		5.0%	5.0%
Ether Extractable matter		0.2%	<0.2
Arsenic (As)		3.00 ppm	Less than 3.00 ppm
Cadmium (Cd)		1.00 ppm	Less than 1.00 ppm
Lead (Pb)		2.00 ppm	Less than 2.00 ppm
Mercury		1.00 ppm	Less than 1.00 ppm

Analysis according USP, In House

TECHNICAL MANAGER	ENG. AHAD MORADGHOLI
QUALITY CONTROL MANAGER	Dr. SAFOURA BAKHTIARI

● کاربرد: صنایع دارویی، غذایی، بهداشتی مانند شوینده ها



CERTIFICATE OF ANALYSIS

Chemical Name: FD&C Blue No,2 LAKE	Batch Number: FD&C 24009	Date of Manufacture: 09/2019 Expiry Date: 09/2021
C.I NO: 73015: 1	CAS.NO:	COLOR: Blue

	Limits	Result	Units
Pure Dye Content	12.00	13.1	%
Tartrate Buffer Titration		13.04	%
Ether soluble Matter	0.2	<0.2	%
HCL Insoluble matter	0.5	0.49	%
Arsenic	3.00	Less than 3.00	ppt
Cadmium	1.00	Less than 1.00	ppt
Lead	10.00	Less than 10.00	ppt
Mercury	1.00	Less than 1.00	ppt
Total Heavy Metal	40.00	Less than 40.00	ppt
Chloride & Sulfate	2	1.29	%

TECHNICAL MANAGER	ENG. AHAD MORADGHOLI
QUALITY CONTROL MANAGER	Dr. SAFOURA BAKHTIARI

● کاربرد: صنایع دارویی، صنایع چاپ، صنایع غذایی، بهداشتی و لوازم آرایشی



CERTIFICATE OF ANALYSIS

Chemical Name: FAST GREEN FCF FD&C GREEN NO.3	Batch Number: FD&C 23707	Date of Manufacture: 08/2018 Expiry Date: 008/2020
C.I NO: 42053	CAS.NO: 2353-45-9	COLOR: Blue

	Min	Max	Result
Total color	85%		87%
Appearance			Green Powder
Solubility			Water, ethanol
Sum of Volatile matter at 135°C		5.0%	2.05%
Water insoluble matter		0.2%	0.2%
Sodium Chloride / Sulphate		10%	7.19%
Ether soluble matter		0.2%	<0.2%
Sulfobenzaldehyde		0.5%	Not detected
Dye intermediate		1.00%	1.00%
Subsidiary dyes		5.0%	3.18%
Ether Extractable matter		0.2%	<0.2%
Arsenic (As)		3.00 ppm	Less than 3.00 ppm
Cadmium (Cd)		1.00 ppm	Less than 1.00 ppm
Lead (Pb)		2.00 ppm	Less than 2.00 ppm
Mercury		1.00 ppm	Less than 1.00 ppm

Analysis according USP, In House

TECHNICAL MANAGER	ENG. AHAD MORADGHOLI
QUALITY CONTROL MANAGER	Dr. SAFOURA BAKHTIARI



CERTIFICATE OF ANALYSIS

Chemical Name: FD&C YELLOW 5 TARTRAZIN	Batch Number: FD&C 23006	Date of Manufacture: 08/2018 Expiry Date: 04/2020
C.I NO: 19140	CAS.NO: 1934-21-0	COLOR: YELLOW

	Min	Max	Result
Total color	85%		85%
Appearance			Yellow Powder
Solubility			Water
Sum of Volatile matter at 135°C		5.0%	4.4%
Sodium Chloride / Sulphate		10%	8.75%
Water insoluble matter		0.2%	0.2%
Ether soluble matter		0.2%	<0.2%
Unsulfurated primary aromatic amines		1.00%	<1.00%
Dye intermediate		5.00%	4.85%
Organic Compounds other than coloring Matters		1.00%	<1.00%
Arsenic (As)		3.00 ppm	Less than 3.00 ppm
Cadmium (Cd)		1.00 ppm	Less than 1.00 ppm
Lead (Pb)		2.00 ppm	Less than 2.00 ppm
Mercury		1.00 ppm	Less than 1.00 ppm

Analysis according USP, In House

TECHNICAL MANAGER	ENG. AHAD MORADGHOLI
QUALITY CONTROL MANAGER	Dr. SAFOURA BAKHTIARI



CERTIFICATE OF ANALYSIS

Chemical Name: SUNSET YELLOW FCF
"FD&C YELLOW NO.6

Batch Number: FD&C 23392

Date of Manufacture: 07/2018
Expiry Date: 07/2021

C.I NO: 15985

CAS.NO: 2783-94-0

COLOR: Orange

	Min	Max	Result
Total color	85%		85%
Appearance			Orange Powder
Solubility			Water, ethanol
Sum of Volatile matter at 135°C		10%	3.65%
Sodium Chloride / Sulphate		0.2%	10%
Water insoluble matter		5.0%	0.2%
Ether soluble matter		0.1%	<5.0%
Sulfanic Acid		0.2%	0.1%
Schafer's Salt		0.2%	0.15%
DAADBSA		0.1%	<0.2
DONS		0.5%	0.1
Lower Sulphonated		0.1%	<0.55
Higher Sulphonated		0.01%	<0.09
Unsulfurated primary aromatic amines		3.00 ppm	0.01%
Arsenic (As)		1.00 ppm	Less than 3.00 ppm
Cadmium (Cd)		2.00 ppm	Less than 1.00 ppm
Lead (Pb)		1.00 ppm	Less than 2.00 ppm
Mercury			Less than 1.00 ppm

Analysis according USP, In House

TECHNICAL MANAGER

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QUALITY CONTROL MANAGER

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● کاربرد: صنایع دارویی، صنایع آرایشی و بهداشتی



CERTIFICATE OF ANALYSIS

Chemical Name: PONCEAU 4R "FOOD RED No. 102	Batch Number: FD&C 24003	Date of Manufacture: Expiry Date: 07/2020
C.I NO: 16255	CAS.NO: 2611-82-7	

	Min	Max	Result
Total color	85%		89%
Appearance			Reddisl, Powder or granules
Solubility			Water, ethanol
Organic Compounds other than coloring Matters		0.5%	0.42%
Subsidiary Color		0.5%	0.4%
Ether Extractable matter		0.2%	<0.2%
Sum of Volatile matter at 135°C		5%	3.2%
C Sodium Chloride / Sulphate		10%	6.58%
Water insoluble matter		0.2%	0.2%
Unsulfurated primary aromatic amines		0.01%	Less than 0.01%
Arsenic (As)		3.00 ppm	Less than 3.00 ppm
Cadmium (Cd)		1.00 ppm	Less than 1.00 ppm
Lead (Pb)		2.00 ppm	Less than 2.00 ppm
Mercury		1.00 ppm	Less than 1.00 ppm
Chromium (Cr)		50.00 ppm	Less than 50 ppm

Analysis according USP, In House

TECHNICAL MANAGER	ENG. AHAD MORADGHOLI
QUALITY CONTROL MANAGER	Dr. SAFOURA BAKHTIARI