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## CERTIFICATE OF ANALYSIS # 20220729

Customer

CZECH REPUBLIC

Lot #

20220083

Description

GOLD SEAL ZINC OXIDE

Quantity

24.0000 t

## SHIPPING INFORMATION

Date *March 16, 2022*  
VESSEL *CMA CGM OHIO*  
Our Invoice # *F001 - 00008830*

## CHEMICAL CHARACTERISTICS

Element	Specification %	Min	Max	Production Avg
As	0.0001 MAX	< 0.0001	< 0.0001	< 0.0001
Cd	0.0010 MAX	0.0002	0.0002	0.0002
Cl	0.0005 MAX	0.0004	0.0004	0.0004
Cu	0.0002 MAX	< 0.0001	< 0.0001	< 0.0001
Fe	0.0005 MAX	0.0002	0.0002	0.0002
Mn	0.0001 MAX	< 0.0001	< 0.0001	< 0.0001
Ni	0.0001 MAX	< 0.0001	< 0.0001	< 0.0001
ZnO	99.9 MIN	99.9000	99.9000	99.9000
Pb (including PbO)	0.0020 MAX	0.0010	0.0019	0.0014
S	0.0007 MAX	0.0001	0.0001	0.0001
Total Impurities	0.1 MAX	0.1000	0.1000	0.1000

## OTHER CHARACTERISTICS

Item	Specification	Min	Max	Production Avg
Surface area BET method (m2/g)	3.5 - 7	4.4000	4.4000	4.4000
Granulometry (through # 325 mesh) (%) <sup>1</sup>	99.9 MIN	99.9760	99.9760	99.9760
Moisture (%) <sup>2</sup>	0.2 MAX	0.1000	0.1000	0.1000
Volatile materials (%) <sup>1</sup>	0.2 MAX	0.1100	0.1100	0.1100
Ignition loss (%) <sup>1</sup>	0.2 MAX	0.1600	0.1600	0.1600
Specific weight (g/cm3)	5.6	5.6000	5.6000	5.6000
pH <sup>1</sup>	7.3 - 7.5	7.4000	7.4000	7.4000
Water Soluble Salts (%) <sup>1</sup>	0.10 MAX	0.0900	0.0900	0.0900
Solubility in HCl (%) <sup>1</sup>	99.9 MIN	99.9700	99.9700	99.9700

<sup>1</sup> According Norm DIN 55908 ("Methods of analyzing zinc oxide pigments")

<sup>2</sup> According Norm ASTM D 280 Method "A"

Complies with USP and European Pharmacopeia



BACA SANCHEZ JOHNNY JESUS  
QUALITY CONTROL DEPARTMENT

DATE OF CERTIFICATE  
*March 16, 2022*

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