



Omya SAS
Route d'Eygalières
13660 Orgon plant
France
Phone direct: +33 490733800

Certificate of analysis

Product : CALCIPUR 2 - OG
Packaging: Bag
Lot number : CAL221351A to Y

Production date :
Releasing date :
Recontrol date :

30 August 2021
15 September 2021
August 2024

Aspect : Fine and white powder

Chemical name :

Calcium Carbonate

Property	Norm of reference	Values	Unit	Specification
Physical specifications*				
Brightness RY	DIN 53163	92,0		88,5 / 94,5
Brightness L.a.b - L -	ISO 11664-4	96,7		95,2 / 97,2
Brightness L.a.b - a -	ISO 11664-4	0,42		0,25 / 0,65
Brightness L.a.b - b -	ISO 11664-4	3,1		2,2 / 4,2
Particle-size distribution < 2 µm (Laser)	Malvern MS 2000	33	%	26 / 40
Sieve residue at 75µm	ISO 787/7	0,00	%	
Sieve residue at 45µm	ISO 787/7	0,00	%	- / 0,01

E170 Specifications current version**

Solubility in water	E170	Pass		Practically insoluble
Solubility in alcohol	E170	Pass		Practically insoluble
Solubility in acetic acid	E170	Pass		Soluble
Solubility in hydrochloric acid	E170	Pass		Soluble
Solubility in nitric acid	E170	Pass		Soluble
Calcium carbonate rate (ASSAY)	JECFA	>98,1	%	98,0 / -
Loss on drying	E170	<0,5	%	- / 2,0
Substances insoluble in acetic acid	E170	<0,2	%	- / 0,2
Magnesium and alkali salts	JECFA	<1	%	- / 1
Fluoride	Ionometry	<50	ppm	- / 50
Sb + Cu + Cr + Zn + Ba	ICP-MS	<100	ppm	- / 100
Arsenic	ICP-MS	<1,2	ppm	- / 3
Lead	ICP-MS	<0,5	ppm	- / 3
Cadmium	ICP-MS	<0,5	ppm	- / 1

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Calcium Carbonate

Property	Norm of reference	Values	Unit	Specification
<u>FCC Specifications current version**</u>				
Carbonates	FCC	Pass		effervescence
Calcium test	FCC	Pass		Positive reaction
Loss on drying	FCC	<0,5	%	- / 2
Substance insoluble in hydrochloric acid	FCC	<0,2	%	- / 0,2
Fluoride	Ionometry	<0,005	%	- / 0,005
Arsenic	FCC	<3	ppm	- / 3
Lead	ICP-MS	<0,5	ppm	- / 3
Magnesium and alkali salts	FCC	<1	%	- / 1
Calcium carbonate rate (ASSAY)	FCC	>98,0	%	98,0 / 100,5
<u>Internal specification**</u>				
Propylene glycol rate	GC/FID	<0,20	%	- / 0,20
Mercury	ICP-MS	<0,2	µg/g	- / 0,5
Iron	ICP-MS	<500	ppm	- / 500
Heavy metals	FCC (fourth edition)	<0,002	%	- / 0,002
<u>Microbiological specifications current version*</u>				
Aeromesophilic bacterias (in 1g)	ISO 4833-1 (XP V08-034)	<200	/g	- / 1000
Yeasts (in 1g)	ISO 7954 (NF V08-059)	<5	/g	- / 100
Moulds (in 1g)	ISO 7954 (NF V08-059)	<5	/g	- / 100
Escherichia coli (in 1g)	ISO 16649-2	absence	/g	Absence
Pseudomonas aeruginosa (in 1g)	ISO 13720	absence	/g	Absence
Staphylococcus aureus (in 1g)	ISO 6888-2	absence	/g	Absence
Salmonella (in 25g)	ISO 6579 (AES 10/4-05/04)	absence	/25 g	Absence
Enterobacteria (in 10g)	ISO 21528-2 (NF V08-054)	absence	/10 g	Absence

* Performed per batch

** Performed on regular basis

Laboratory mention ; In accordance with specification

Name and signature

Gudy Chauchevier
Techniciens de Laboratoire

François Carrion
Technicien de laboratoire

Date :

15 September 2021

