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

Certificate of analysis

Product :	**CALCIPUR 2 - OG**	**Production date :**	**30 August 2021**
Packaging:	Bag	**Releasing date :**	**15 September 2021**
Lot number :	**CAL221351A to Y**	**Recontrol date :**	**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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Revision : 18 of may 2021

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Chemical name : Calcium Carbonate

Property	Norm of reference	Values	Unit	Specification
FCC Specifications current version**				
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
Internal specification**				
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
Microbiological specifications current version*				
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

Cindy Chanchevrier
Technicienne de Laboratoire

François Carrion
Technicien de laboratoire

Date : **15 September 2021**

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