



Certificate of Analysis (Representative Sample)

Product Name: TITANIUM DIOXIDE OIL DISPERSIBLE

Date of manufacture:

Batch Number:

Test parameter	Unit	Method	Test value	Lower limit	Upper Limit	Reference
Titanium Dioxide	%	S-1008	99.3	99.0	100.5	USP
Identity		C101206	meets spec			USP
Loss on drying	%	S-1003A	0.3		0.5	USP
Loss on ignition	%	S-1004A	<0.1		0.5	USP
Water soluble substances	%	B318-01	<0.10		0.25	USP
Acid-soluble substances	%	B318-02	0.3		0.5	USP
Arsenic (total)	mg/kg	C101201	<1			USP
Lead (HCl soluble)	mg/kg	C101201	<10		10	USP
Antimony (HCl soluble)	mg/kg	C101201	<2			USP
Mercury (total)	mg/kg	C101107	<1			USP
Titanium Dioxide	%	S-1008	99.3	99.0		FDA
Loss on ignition	%	S-1004A	<0.1		0.5	FDA
Water soluble substances	%	B318-01	<0.1		0.3	FDA
Acid soluble substances	%	B318-02	0.3		0.5	FDA
Arsenic (HCl-soluble)	mg/kg	C101202	<1			FDA
Lead (HCl-soluble)	mg/kg	C101202	<10		10	FDA
Antimony (HCl-soluble)	mg/kg	C101202	<2			FDA
Mercury (total)	mg/kg	C101107	<1			FDA
Al ₂ O ₃ and/or SiO ₂	%	C101203	<2			FDA
Titanium Dioxide	%	S 1008	99.3	99.0		E171
Loss on drying	%	S-1003A	0.3		0.5	E171
Loss on ignition	%	S-1004A	<0.1		1.0	E171
Water soluble substances	%	B318-01	<0.1		0.5	E171

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Acid-soluble substances		B318-02	0,3		0,5	E171
Al ₂ O ₃ and/or SiO ₂		C101203	<2,0		2,0	E171
Arsenic (HCl-soluble)	mg/kg	C101203	<1			E171
		C101203	<10		10	E171
Antimony (HCl-soluble)	mg/kg	C101203	<2			E171
Mercury (HCl-soluble)	mg/kg	C101203	<1			E171
Cadmium (HCl-soluble)	mg/kg	C101203	<1			E171
Titanium Dioxide		S-1008	99,3	98,0	100,5	EP
Identity		C101206	meets spec			EP
Water soluble substances		C101204	<0,1		0,5	EP
Arsenic (total)	mg/kg	C101204	<5			EP
Antimony (total)	mg/kg	C101204	<100		100	EP
Iron (total)	mg/kg	C101204	<200		200	EP
Heavy metals	mg/kg	C101204	<20		20	EP
Appearance of solution		C101204	meets spec			EP
Soluble barium compounds		C101204	meets spec.			EP
Acidity or alkalinity	ml	C101204	<1,0		1,0	EP
Titanium Dioxide		S-1008	99,3	98,5		JP
Identity		C101206	meets spec			JP
Loss on drying		S-1003A	0,3		0,5	JP
Arsenic (total)	mg/kg	C101206	<10		10	JP
Lead (total)	mg/kg	C101206	<60		60	JP
Water soluble substances		C101206	0,10		0,25	JP

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Colour co ordinate L* (powder)		S-1001	4.5	3.8	7.5	
		S-1006	98.58	97.00		
		S-1002	0.003		0.100	
Total Yeast and Moulds Count (TYMC)	cfu/g	R200-01	<100		100	
		R200-06	<100		100	
Escherichia coli absent in 1g		R200-12	meets spec			
Pseudomonas aeruginosa absent in 1 g		R200-12	meets spec			
Staphylococcus aureus absent in 1 g		R200-12	meets spec			
Salmonella spp absent in 1g		R200-12	meets spec			
Candida albicans absent in 1g		R200-12	meets spec			

USP requirements of residual solvents fulfilled. No solvents used during manufacture.

The material meets the specifications of USP, FDA, E171, EP and JP.

Shelf-life: Titanium Dioxide Oil Dispersible as inorganic compounds are extremely stable under ambient conditions. Therefore no shelf-life is defined. The only possible change could be a decrease in dispersibility due to potential formation of agglomerates. Depending on the application an adequate dispersion has to be taken care of. We recommend use of the product within 3 years after production.