in vitro/in	n vivo Type of assay	Reference Evaluation authors_year or	n by EFSA. Test system/Test obje	ct Exposure conditions (concentration/duration/metabolic activation)	TIO2 material Test substance tested	Information on the characteristics of the test Presence of substance nanofraction in fine	Cellular uptake	Results	Route of exposure	Genotoxicity result	Reliability/comments	Relevance (for EFSA data of only high or	Crystalline Phase Sh	hape of Particle Particl size gi	cle size, nominal particle p even by manufacturer (size	Particle size measured by the authors of the publication (size range/	Aspect ratio value (SD)	Crystal structure, ratio of	ipecific Surface area m2/g] by BET method	Hydrodynamic diameter (nm) by DLS	Hydrodynamic diameter [em] by DLS	Zeta-potential (mV) at pH 7	Zeta-potential (mV) Polydisperaity index in saline, culture media (Pdt)	Polydispersity Index (PdI)	Chemical composition of	Purity of particles [%]	Surface chemistry Coating	Impurities of concern Other
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					Alumina (5–6.5%), dimethicone (1–4%)	
					Alumina (3–8%), stearic acid (5–11%)	
					Alumina (10.5–12.5%), silica (3.5–5%)	
						XRD: tetragonal crystallograph
						ic system; P42/mnm space group
						(according to ICPDS: 34–0180); rharacteristic
						reflections (110) at 27.3; (101) at 36.0;
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						absorption peaks at Imax = 305 nm and
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in vitre Mitomatoka teel in vitro Migned et e	1 46, 2023 SCCS 1945 eard Noce	Biggenetic III: Transmission PL/F angle view production: Transmission and production and produc	T27, tanks, free Regretation tability is ubspace—and right provide tables of tables o	Excerning Visit, mgCCDE mark regions: a main region of the second second second second second mark regions: mark regions:	Negros	1 Row number of cells sconed	low Indue	255 of the low by number wave of 44 60m for her mean view of 260m 450 mm			9279353 BHL72349 583	1877 (1877-254) 821	6.4		

	polymer (Allosperse- A; 78% (w/w)) and tirl2 NPs (22%)		Polymer coated (Allosperse-A; 78% (w(w)) and TiO2 NPs		
	102 107 (22.1)		(22%)		
					-
			TiO2 bare and surface modified with cafeinic acid		
ag/mL) (μg/mL) Ο			surface-functionalized with sodium carboxylic ligands		
-					
					melting point
					density (4.26
					(150°C) and density (4.25 g/ml at 25°C).
					(150%) and density (4.26 g/ml at 25%).
					(150-6) and density (428 g/ml at 25-C).
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		58,10		AL, Nu, P, S	(2004, and denthy (425 dg g/ml at 25 <c).< td=""></c).<>
		98,10		Al, No, P. 5	(2004, and density (425 g/ml at 23-C).
		98,10		AL, Nu, P, S	(2004, 148 dewsty (425 g/ml at 23-C).
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in PLOT International International	ru vignaru et al., 2023	2003	in the spanies of the second s	10/2 10/2, 212/2007, 2	a perpension reservey. In storagene water (pri-		regione	*	LOW	a.a.a.a.			*/ d.9 = *./	120.9 1 3.1		- 8.99 1 1.90	0,20			
			carcinoma nom numan i valuaver, France	nm, irom	7.75) and in TK146 cell culture medium	analysis conciring sc, s live														
			buccal cells type of assay: micronucleus assay in vitro	Sigma-Aldrich, Saint	(Ham's F12, pH 7.54)	and SIMS imaging: contocal result: negative		low number of cells scores												
			guideline: no	Quentin-Fallavier,		microscopy														
			treatment time: 2 h + 22 h	France	Cell Internalisation : TEM; npSCOPE analyses	result for positive control: 2.8 fold increase														
			concentrations: 5, 50 or 100 ug/mL		combining SE, STIM and SIMS imaging;															
			FBS serum: 0		confocal microscopy	cytotoxicity: In proliferating cells, the tested TIO2														
			59 mis: not used			samples induced a similicant cytotosic activity at all														
			biological martiam for NDs disparation: water		Societion: societed in ultransme water (1	tested concentrations compared to portreated cells														
			extentionicity assessment: Cells expressed to 25 unit of atroposities as a positive		ma(mi) placed in an ice bath for 1 min at 40%	with a dose response tendency. In contrast after cell														
			control or 5, 50 or 100 or feel of food words 7003 (\$113) and 7003 best		analysis of the West and West and American	differentiation on civility days and the second in the														
			controls, or all and and approximate provide the providence of the test		to obtain a stable discontex of 707 metales	terretering and the second s														
					to becam a stable dispersion of most particles	Land Contractor.														
			culture medium for 72 h. Alamar blue assay, TEEK measured immediately of		tor 15 days at eoc.															
			within 48 h.			TEER: Regardless of the time point tested during the 48														
			positive control: etoposide SDuM			h after treatment, no alterations were detected at any														
			methodology: No cytokinesis block; immunofluorescence staining (not			dose, suggesting that epithelial barrier permeability and														
			described); micronucleated cells were scored in at least 100 cells per sample;			monolayer integrity were not affected.														
			triplicate experiments																	
			statistics: one-way or two-way analysis of variance (ANDVA) followed by the			Internalisation: Electron dense (TiO2) particles were														
			appropriate post hoc test			isolated or recovered as small aggregates and then														
			Additional measurements: E171 particle translocation in vivo through the			laneer applomerates of submicron-sized particles mixed														
			pie buccal mucosa and in vitro on human buccal TR146 cells: artibodies			with NPs into the cytoplasm. Conformed by noSCOPE														
			directed against gammaH2AX and S3BP1 (DNA damage biomarkers)			analyses														
			nuidathan strass																	
in vitro Micronucleus test in v	ro Vienard et al., 2023	SCCS	TR146 spaamous cel sensorarticles: NM-102, TIO2 NPs, anatase, referenced to JRCNM10200a NANOMA:	TERIAL NM-102, TIO2 NPs.	Suspension stability: in ultracure water (pH	Confirmed by TEM: roSCOPE any statistical increase at any concentration : ro	Negative	1	Lpw	anatase			301.6 ± 0.4	137.0 ± 20.1	- 34.3 ± 0.66	-819±0.59 0.17	0.35			-
			carcinoma from human twoe of assay: micronucleus assay in vitro	anatase, referenced	7.75) and in TR146 cell culture medium	analyses combining SE, STIM														
			harral ralls exideline: no	to IECNM10200a	Diam's \$12 of (7.54)	and SMS imaging conford statement three statements and statements		inv number of cells score												
			transforment times: 2 h + 22 h			mirror on the second														
			experience in the second s		Call internalization - TRM: and COME analysis	enough fair exciting control of the fair increases														
			Concentrations 3, 30 or 100 agrin.		combining IT. 1704 and DMI impaires															
					contening ac, annuana anna magnig,															
			av mac not used		conrocal microscopy	cytosescry: in promining calls, the texted into 2														
			biological medium for NPs dispersion: water			samples induced a significant cytotoxic activity at all														
			cytotoxicity assessment: Cells exposed to 25 uM of etoposide as a positive		Sonication: sonicated in ultrapure water (1	tested concentrations compared to nontreated cells,														
			control, or 5, 50 or 100 ug/ml of food-grade TIO2 (E171) and TIO2 test		mg/ml) placed in an ice bath for 1 min at 40%	with a dose-response tendency. In contrast, after cell														
			materials for 2 h. Cells were then washed with PBS and incubated in fresh		amplitude (VCX 750-230 V, Sonics Materials)	differentiation, no viability drop was observed in any														
			culture medium for 72 h. Alamar blue assay. TEER measured immediately or		to obtain a stable dispersion of TiO2 particles	tested condition.														
			within 48 h.		for 15 days at 4oC.															
			positive control: etoposide 50uM			TEER: Regardless of the time point tested during the 45														
			methodology. No cytokinesis block: immunofluorescence staining (not			h after treatment, no alterations were detected at any														
1 1	1	1	described): micronucleated cells were scored in at least 100 cells per sample:	1		dose, supresting that epithelial barrier permeability and	1	1	1	1		1 1	1	1	1			1	1 1 1 1	
			triplicate experiments			monoleur integrity were not affected														
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			appropriate post hoc test Additional measurements: E171 particle translocation in vivo through the the based of the second second second 2014 of section and based			Internalisation: Electron dense (TiO2) particles were isolated or recovered as small aggregates and then														
			appropriate post hoc text Additional measurements: E171 particle translocation in vivo through the pig buccal mucous and in vitro on human buccal TR146 cells; antibodies			Intermalisation: Electron derase (1022) particles were isolated or recovered as small aggregates and then larger agglomerates of submicron-sized particles mixed														
			appropriate post Noc test Additional measurements: E171 particle translocation in vivo through the pit baccal mucous and in vitro on human baccal TRI36 cells; antibodies directed against generatizeXand SI3PE (DMA damage biomakem);			Internaliables: Electron dense (EO2) particles were isolated or recovered as small aggregates and then larger aggiomentes of submicros-state particles mixed with NPs into the cytoplasm. Conformed by npSCOPE														