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## 1. General information/ specifications

Material			
Material type	Active substance GMP non GMP		
Material Identification	Name of the material: Curcumin IUPAC: 1,7-bis(4-hydroxy-3-methoxyphenyl)-hepta-1,6-diene-3,5-diones CAS No.: 458-37-7Material No. (if applicable): Description (formula, molar mass, if applicable): C21H20O6, 368.38 g/mol 0 0 0 0 0 0 0 0		
Supplier/ manufacturer	Product of PharmBioTec		
Storage/transport	Storage RT		
conditions	Storage class 10-13		
Shelf life	Based on stability data		
Re- Test Interval	Based on stability data		

## 2. Analytical data/ specifications

Parameters	Method Instruction [SOP-06-MA, Document No.]	Setpoint or area			
Characterization					
Solubility	n.a.	100mg/ml in PEG 400			
Content / Activity	Content / Activity				
Curcuminoid content HPLC	SOP-06-MA-022	<ul> <li>≥ 92 % Curcumin</li> <li>&lt; 10 % Desmethoxycurcumin</li> <li>&lt; 1 % Bisdesmethoxycurcumin</li> </ul>			
Identity					
Identity by HPLC	SOP-06-MA-022	Retention times comply with standards			
melting range	Ph. Eur	172 - 183°C			
DC	SOP-06-MA-021	Under UV light (365 nm) 2 orange bands of the sample are identical in colour and position to the reference			
Purity					
Purity by HPLC	SOP-06-MA-022	<ul> <li>≤ 1.0 % Contamination A</li> <li>≤ 0,1 % single unknown impurity</li> <li>≤ 1,0 % total unknown contamination</li> </ul>			



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## Specification of PBT-produced curcumin

Parameters	Method Instruction [SOP-06-MA, Document No.]	Setpoint or area			
Additional characterisations					
Drying loss	SOP-06-MA-026	Max. 2.0 % in 1g			
Total ash	SOP-06-MA-013	Max. 1.0 % in 2g			
Heavy metals	External laboratory	Cobalt ≤ 10 ppm			
		Lead ≤ 10 ppm			
		Arsenic ≤ 30 ppm			
		Mercury ≤ 6 ppm			
		Cadmium ≤ 4 ppm			
		Vanadium ≤ 20 ppm			
		Nickel ≤ 40 ppm			
		Lithium ≤ 500 ppm			
		Antimony ≤ 180 ppm			
		Copper ≤ 600 ppm			
Aflatoxins	Ph. Eur.	meets the requirements			
Pesticide residues	Ph. Eur.	meets the requirements			
residual solvents	Ph. Eur.	< 5000 ppm acetone			
	FII. EUI.	< 3000 ppm methanol			
TAMC	Ph. Eur.	Max. 10 <sup>2</sup> KBE per g			
(total aerobic microbial					
count)					
TYMC		Max. <sup>101</sup> KBE per g			
(total combined yeasts	Ph. Eur.				
and moulds)					
Detection of specific		Absent			
microorganisms:	Ph. Eur.				
Salmonella sp.		in 25 g			
Escherichia coli		in 1 g			
Bacterial endotoxins	Ph. Eur.	500 IU/g			
		(= 25 IU/mL of a 1g/20 mL suspension)			