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<b>DFE</b>		Product Specification			
pharma		Product group:	МСС		
		Brand name:	Pharmacel® 101		
		Article code:	SAP 743678; Navision 13101-5355		
			SAP 733326; Navision 13121-5355		
		Product description	ions: Microcrystalline Cellulose		
		Document No.:	PD-0472	Page 1 of 2	
Manufacturer	:	DFE Pharma India Privat	e Limited, India		
Production site	:	DFE Pharma India Private Limited, Cuddalore, India and Contract manufacturing location at Chemfield Cellulose Private Limited., Nagpur, India			
Product name	:	Pharmacel <sup>®</sup> 101 Conforms to USP-NF, Ph. Eur., JP, and IP Specifications on date of manufacture			
Product description	:	A white or almost white, fine, crystalline, or granular, slightly hygroscopic powder having fluidity and odorless			
Solubility	:	Practically insoluble in water, acetone, anhydrous ethanol, toluene, diethyl ether, dilute acids and in a 50 g/L solution of Sodium hydroxide			

**Specification** 

### Physical - Chemical Data

Identification A (USP, Ph. Eur.,), 2 (JP)	Pass
Identification B (USP, Ph. Eur.,), 1 (JP)	Pass
Identification C (USP, Ph. Eur.,), 3 (JP)	Max. 350
Identification C (IP)	Pass
Solubility in ammoniacal copper tetrammine	Pass
рН	5.5 - 7.0
Conductivity	Max. 75 µS/cm
Ether soluble substances	Max. 0.05 %
Water soluble substances	Max. 0.20 %
Heavy metals	Max. 10 ppm
Assay (IP)	97.0 - 102.0 %
Arsenic	Max. 2 ppm
Starch and Dextrins (IP)	Pass
Organic impurities (IP)	Pass
Loss on Drying	3.0 - 5.0 %
Residue on ignition	Max. 0.05 %
Bulk density	0.26 - 0.31 g/mL

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## **Product Specification**

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#### Microbiological Data

**Total Aerobic Microbial Count** 

Total Yeast and Mould Count Escherichia coli in 10g Pseudomonas aeruginosa in 10g Staphylococcus aureus in 10g Salmonella species in 10g Shigella species in 10g

# Specification

Max. 100 CFU/g

Max. 20 CFU/g Negative Negative Negative Negative Negative

### Particle Size Distribution (Airjet, Malvern)

Particle size %< 75µm Particle size %< 250µm Particle size D10 Particle size D50 Particle size D90

### Specification

70.0 - 90.0 % Min. 99.0 % 14 - 30 μm 40 - 75 μm 90 - 156 μm

- **Packaging:** A white multi-layered polyethylene bag with a polyethylene inner liner, 25kg net.
- **Storage:** Keep in original, un-opened packing in ambient conditions, protected from humidity and away from strongly odorous materials.
- Shelf life: For storage periods exceeding 48 months, we recommend re-testing.

This document substitutes all previous versions issued for the brand names mentioned above. We trust this information, which is made up to the best of our knowledge, will be helpful to you.

Name: Dr. Bastiaan DickhoffJob title: Director Innovation & Technical Solutions

B. Dickhoff Signature

This document is controlled by a validated, electronic system and is valid without signature. The above facsimile signature is only for display.

DFF Pharma GmbH & Co. KG