

PRODUCT SPECIFICATION

ARMOR PHARMA™ lactose monohydrate 450M

MANUFACTURING SITE:	Armor protéines S.A.S., Loudéac, France
PRODUCT NAME:	ARMOR PHARMA™ lactose monohydrate 450M Conforms to USP – NF, Ph. Eur., JP lactose monohydrate monographs, current versions at time of manufacture.
PRODUCT DESCRIPTION:	White, crystalline powder; Freely soluble in water, practically insoluble in ethanol (96 per cent).
RESIDUAL SOLVENTS (CPMP/ICH/283/95 + CVMP/VICH/502/99):	No class 1, 2, 3 solvents are used during production.

SPECIFICATION

Appearance	White, crystalline powder
Solubility	Freely soluble in water
Identification	Complies with pharmacopoeia
Water (KF)	4.5% to 5.5%
Loss on drying	max. 0.5%
Specific optical rotation, $[\alpha]_{20D}$, anhydrous substance	+ 54.4° to + 55.9°
Residue on ignition/ Sulphated ash	max. 0.1 %
Absorbance: proteins and light-absorbing impurities	
[A] 1%, 1 cm at 210 to 220 nm	max. 0.25
[A] 1%, 1 cm at 270 to 300 nm	max. 0.07
[A] 10%, 1 cm at 400 nm	max. 0.04
Appearance of solution (Ph. Eur.)	Clear and not more coloured than ref. BY ₇
Clarity and Colour of Solution (USP, JP)	Clear and colourless or nearly colourless
Acidity or Alkalinity (ml 0.1 M NaOH)	max. 0.4
Heavy metals (USP)	max. 5 ppm
Particle size distribution (Air jet sieve)	
% < 45 µm	≥ 90
% < 63 µm	≥ 98
% < 150 µm	100
Total aerobic microbial count	max. 100 CFU/g
Total yeast and moulds count	max. 50 CFU/g
Escherichia coli	neg. in 1 g
Salmonella	neg. in 10 g

Frédérique GREAULT
Pharmacist Quality Manager



STORAGE

Store in original unopened packaging, in a dry and odour-free place.
Shelf life: 36 months