

## CERTIFICATE OF MANUFACTURE

PRODUCT:	ULTRA LECITHIN	GRADE:	NPN 80004221
CODE:	102946	DATE OF MANUFACTURE:	2018-12
MANUFACTURED UNDER LOT	1872912B-A	EXPIRATION DATE:	2022-12
PACKAGED UNDER LOT:	1872912B-A-2	MANUFACTURED QTY:	320 000 capsules

VERSION: 09

Issued date: 2017-10-23

Approved by:



TEST	LIMITS	METHOD	RESULTS
<b>IDENTITY</b>			
Appearance:	Bovine soft gelatin capsule	Visual	Complies
Color:	Orange to brown oil	Visual	Complies
Odor:	Characteristic	Organoleptic	Complies
Average fill weight :	1 140 - 1 260 mg/caps	USP <2091>	1235 mg/caps
Weight variation:	USP limits	USP <2091>	Complies
Rupture test (Disintegration) :	≤ 15 minutes	USP <2040>	3 minutes
<b>ACTIVITY</b>			
Soy lecithin ( <i>Glycine max</i> ) beans	950 - 1 050 mg/cap (Target: 1 000 mg/caps)	Input	Complies
Safflower oil ( <i>Carthamus tinctorius</i> ) seeds	190 - 210 mg/cap (Target: 200 mg/caps)	Input	Complies
<b>PURITY</b>			
Total aerobic microbial count	≤ 3 000 cfu/g	USP <2021>	< 100 cfu/g
Yeasts / Moulds	≤ 300 cfu/g	USP <2021>	< 10 cfu/g
<i>Pseudomonas aeruginosa</i>	Absence	USP <62>	Absence
<i>Escherichia coli</i>	Absence	USP <2022>	Absence
<i>Salmonella spp.</i>	Absence	USP <2022>	Absence
<i>Staphylococcus aureus</i>	Absence	USP <2022>	Absence
Arsenic	< 2.8 ppm (< 3.2 µg/caps)	ICP/MS	0.1 ppm
Cadmium	< 1.8 ppm (< 2.1 µg/caps)	ICP/MS	< 0.1 ppm
Lead	< 2.8 ppm (< 3.2 µg/caps)	ICP/MS	0.1 ppm
Mercury	< 5.8 ppm (< 6.7 µg/caps)	ICP/MS	0.01 ppm
Peroxide value	≤ 10.0 mEq/kg	USP <401>/AOCS Cd 8b-90	0.1 mEq/kg
Acid value	≤ 30.5 mg KOH/g	USP <401>/AOCS Cd 3d-63	26.7 mg KOH/g
Residual solvents <sup>(1)</sup>	USP limits	USP <467>	Complies
Pesticides <sup>(1)</sup>	USP limits	USP <561>	Complies

<sup>(1)</sup> Tested according to SOP CQ026

VERIFIED BY:

  
 QUALITY CONTROL (QC)

2019-01-16

DATE

APPROVED FOR USE BY:

  
 QUALITY ASSURANCE (QA)

2019-01-16

DATE