



QUALI-G™
GELATIN CAPSULE

CERTIFICATE OF ANALYSIS

CUSTOMER:	OMFE, S.A.	COUNTRY:	Spain
ITEM DESCRIPTION:	2DRBAJA	SIZE:	2
CUSTOMER ITEM:	30201201	CUSTOMER ORDER:	49000034332
LOT NUMBER:	E1705891	NAME:	2 AMARILLO 5/BLANCO
LOT QUANTITY APPROVED:	1225000	APPROVAL DATE:	14/11/2017
PRINTING:	NOT APPLICABLE	MANUFACTURING DATE:	09/11/2017
INK COLOR:	NOT APPLICABLE	EXPIRY DATE:	5 YEARS

FINISHED PRODUCT TESTS

PARAMETERS	LIMITS	REFERENCE	RESULT
MICROBIOLOGICAL AND CHEMICAL TEST			
Total Aerobic Microbial Count (TAMC)	10 ³ CFU/G	EP/USP	10 (Average)
Salmonella	Negative / 10 G	EP/USP	Meets test
E. Coli	Negative / 1 G	EP/USP	Meets test
S. Aureus	Negative / 1 G	EP/USP	Meets test
Ps. Aeruginosa	Negative / 1 G	EP/USP	Meets test

DIMENSIONAL AND PHYSICAL TEST

Diameter	Cap (mm)	Meets spec	TM*	6,38	-	6,36	(max-min)
	Body (mm)	Meets spec	TM*	6,08	-	6,06	(max-min)
Length	Cap (mm)	Meets spec	TM*	9,0	-	8,9	(max-min)
	Body (mm)	Meets spec	TM*	15,4	-	15,3	(max-min)
End thickness	Cap (micr)	Meets spec	QS*	167	-	120	(max-min)
	Body (micr)	Meets spec	QS*	165	-	100	(max-min)
Weight (mg)		Meets spec	TM*	64			(Average)
Moisture (%)		Meets spec	TM*	14,9			(Average)

VISUAL ATTRIBUTES

VISUAL DEFECTS	Major A	Major B	TM*	Meets
AQL (%)	Minor			
PRINTING DEFECTS	0,010	0,040	0,25	TM*
	Major A	Major B		Meets (if applicable)

*TM = Qualicaps Technical Manual *QS = Qualicaps internal specification "Meets test" means conforms to specification

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CAPSULE COLOR FORMULATION

The design weight of a size 2 capsules is 63 mg, the cap representing 40% and the body 60% of the capsule weight. The mean capsule weight of 100 capsules can vary within the range of 58- 68 mg.

CAP :

CODE	TITLE	GM OF DYE PER 100 GM CAPSULE
DRB	OPAQUE YELLOW 5	QUINOLINE YELLOW 1.490 TITANIUM DIOXIDE 2.300 WATER (14,5%) TARGET MOISTURE GELATIN

BODY :

CODE	TITLE	GM OF DYE PER 100 GM CAPSULE
AJA	OPAQUE WHITE	TITANIUM DIOXIDE 2.000 WATER (14,5%) TARGET MOISTURE GELATIN

COLORANT	C.I. NUMBER	E.E.C. NUMBER
TITANIUM DIOXIDE	77891	E171
QUINOLINE YELLOW	47005	E104

REGULATORY COMPLIANCE

RAW MATERIAL

GELATIN: Complies with the requirements of current EP and USP/NF editions.

It is of pure bovine origin, complies with revision in force of European Guideline EMEA/410/01. Each supplier has a Ph. Eur certificate of suitability for their product (R1-CEP-2000-027-Rev.02, R1-CEP-2000-029-Rev.05, R1-CEP-2000-045-Rev.03, R1-CEP-2002-110-Rev.00, R1-CEP-2001-211.Rev.01).

COLORANTS: Comply with Directive 2009/35, Commission Regulation 231/2012 and where applicable, with the requirements of the EP

CAPSULES:

Do not contain preservatives and have not been treated with Ethylene Oxide. They comply with The European Agency for the Evaluation of Medicinal Products (EMA) guideline CPMP/ICH/283/95 and the European Pharmacopoeia for residual solvents.

DISINTEGRATION: Less than 15 minutes by the Ph. Eur. test and have a rupture time of less than 5 minutes by the USA Federal Specification 285A Acid Solubility Test.

This is to certify that the information above has been approved by QA as conforming to Qualicaps Europe specifications, as described in the current technical manual and applicable regulatory requirements.

FEDERICO GARCIA
QUALITY ASSURANCE MANAGEMENT