

**CERTIFICATE OF ANALYSIS**
Weishardt Group

CUSTOMER :	YOUR ORDER :
	454627
QUALITY :	OUR REFERENCE :
	51143
NATICOL 4000 - MARINE COLLAGEN	ARTICLE :
BATCH :	321703890
	QUANTITY :
PREPARATION DATE :	24/04/2020
	DATE OF MINIMUM DURABILITY :
	24/04/2025

PHYSICO-CHEMICAL CHARACTERISTICS	RESULT	UNIT	SPECIFICATION
Protein (*)	≥ 93	%	min 93
Average molecular weight (*)	4000	Da	4000
Viscosity (20%, 25°C)	67,8	mp	60 – 100
pH	6,35	-	5,6 – 7,0
Conductivity (1%, 30°C)	0,250	mS/cm	max 1
Moisture	6,7	%	max 7
Taste	conform	-	neutral
Odor	conform	-	neutral
Ash (550°C) (*)	≤ 2	%	max 2
SO ₂ (*)	≤ 10	mg/kg	max 10
H ₂ O ₂ (*)	≤ 10	mg/kg	max 10
Arsenic (*)	≤ 1	mg/kg	max 1
Cadmium (*)	≤ 0,5	mg/kg	max 0,5
Chromium (*)	≤ 10	mg/kg	max 10
Copper (*)	≤ 30	mg/kg	max 30
Iron (*)	≤ 30	mg/kg	max 30
Lead (*)	≤ 3	mg/kg	max 5
Mercury (*)	≤ 0,1	mg/kg	max 0,15
Zinc (*)	≤ 30	mg/kg	max 30
Particle size	conform	-	fine powder
MICROBIOLOGICAL CHARACTERISTICS	RESULT	UNIT	SPECIFICATION
Total aerobic microbial count	<10	in 1 g	max 1000
E. coli	absent	in 10 g	absence
Sulfite-reducing sporulated anaerobic bacteria	absent	in 1 g	max 10
Salmonella	absent	in 25 g	absence
Yeasts and Moulds	<100	in 1 g	max 100

Parameters with an asterisk (*) are analysed according to a periodic analysis plan.

Collagen issued from fish skins.

Quality conform to the European Pharmacopea, to the American Pharmacopea USP/NF, to the requirements of regulation (EC) N° 853/2004, N° 2073/2005, to the "GME standard code bacteriological specification food grade gelatine".

Date : 26 May 2020