



CERTIFICATE OF ANALYSIS

Product Name: **Agar, Micropropagation Type II**
Catalog Number: A037 Molecular Formula: $(C_{12}H_{18}O_9)_n$
Lot Number: 04192005 Storage: 15 to 30°C
CAS Number: 9002-18-0 Retest Date: 31-JAN-2021
Source: *Gelidium*, Spain

<u>Test</u>	<u>Specifications</u>	<u>Results</u>
Appearance	Off-White to Tan Powder	PASS
Identity Test	Passes Test	PASS
Particle Size (150 mesh)	$\geq 95.0 \%$	PASS
Moisture	$\leq 20.0 \%$	10.13 %
Starch	None Detected	PASS
Insoluble Matter	$\leq 1.0 \%$	$< 1.0 \%$
Total Ash	$\leq 6.50 \%$	3.21 %
Acid Insoluble Ash	$\leq 0.5 \%$	$< 0.5 \%$
Organic Volatile Impurities	Meets Requirements	PASS
Arsenic	≤ 3 ppm	< 3 ppm
Heavy Metals	≤ 40 ppm	< 40 ppm
Lead	≤ 10 ppm	< 5 ppm
Foreign Organic Matter	$\leq 1.0 \%$	$< 1.0 \%$
Gelatin	None Detected	PASS
Water Absorption	≤ 75 mL	< 75 mL
pH (1.5%, H ₂ O, 60°C)	6.0 - 8.0	6.35
Gel Strength (1.5 %, 20°C)	600 - 1100 g/cm ²	775 g/cm ²
Gelling Temperature	32.0 - 38.0°C	35°C
E. coli	None Detected	PASS
Salmonella	None Detected	PASS
Plant Tissue Culture Tested	Normal Plant Growth	PASS
Bacterial Cell Culture Tested	Normal Bacterial Growth	PASS

This product meets or exceeds the quality standards established by Caisson Laboratories, Inc.

This product is intended for Laboratory Use Only

Prepared by:

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Quality Control

18-APR-2019

Reviewed by: