



## CERTIFICATE OF ANALYSIS

Product Name: **Agar, Micropropagation Type II**  
Catalog Number: A037 Molecular Formula:  $(C_{12}H_{18}O_9)_n$   
Lot Number: 11182012 Storage: 15 to 30°C  
CAS Number: 9002-18-0 Retest Date: 31-JUL-2020  
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	$\leq 20.0 \%$	10.21 %
Starch	None Detected	PASS
Insoluble Matter	$\leq 1.0 \%$	< 1.0 %
Total Ash	$\leq 6.50 \%$	3.12 %
Acid Insoluble Ash	$\leq 0.5 \%$	< 0.5 %
Organic Volatile Impurities	Meets Requirements	PASS
Arsenic	$\leq 3$ ppm	< 3 ppm
Heavy Metals	$\leq 40$ ppm	< 40 ppm
Lead	$\leq 10$ ppm	< 5 ppm
Foreign Organic Matter	$\leq 1.0 \%$	< 1.0 %
Gelatin	None Detected	PASS
Water Absorption	$\leq 75$ mL	< 75mL
pH (1.5%, H <sub>2</sub> O, 60°C)	6.0 - 8.0	6.29
Gel Strength (1.5 %, 20°C)	600 - 1100 g/cm <sup>2</sup>	770 g/cm <sup>2</sup>
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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Kaylee Kowallis 12/04/2018  
Quality Control

Reviewed by:

*BK*