



## CERTIFICATE OF ANALYSIS

Product Name: **Agar, Micropropagation Type II**

Catalog Number: A037      Molecular Formula:  $C_{12}H_{18}O_5$

Lot Number: 04182015      Storage: 15 to 30°C

CAS Number: 9002-18-0      Retest Date: 30-NOV-2019

Source: *Gelidium*

<u>Test</u>	<u>Specifications</u>	<u>Results</u>
Appearance	White to Cream Powder	PASS
Identity Test	Passes Test	PASS
Particle Size (150 mesh)	$\geq 95.0 \%$	PASS
Moisture	$\leq 20.0 \%$	11.21 %
Starch	None Detected	PASS
Insoluble Matter	$\leq 1.0 \%$	$< 1.0 \%$
Total Ash	$\leq 6.5 \%$	3.11 %
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	$< 75$ mL
pH (1.5%, $H_2O$ , 60°C)	6.0 - 8.0	6.47
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:

Reviewed by:

Aaron Dryden      04/30/2018  
Quality Control