

## 3500 – AGAR AGAR TYPE I

REF NO: TBL/QA/SS/LC/3500	STANDARD SPECIFICATION FOR AGAR AGAR TYPE I	Rev. No: 03
Issue No: 04		Review Date: 28/10/2024
Issue Date: 29/10/2021		Product code: 3500

### PRODUCT PROPERTIES

C.A.S Number	9002-18-0
Chemical Formula	NA
Formula weight	NA
Functional Uses	AGAR AGAR TYPE - I is used as a reagent in plant cell culture studies. It is also used for incubation of single antibody-forming cell to investigate the plaque formation..
Standard Packaging	100 gm, 500gm, 5kg and 25kg

### PHYSICAL PARAMETERS

PRODUCT PARAMETER	SPECIFICATION
Appearance	Yellowish to creamish colour free flowing powder.
Solubility (2% soln. at 90 <sup>o</sup> C)	Soluble in hot water. Near to clear.
Clarity (1% Soln. at 121 <sup>o</sup> C)	Near to clear, light yellowish colour jelly.

### CHEMICAL PARAMETERS

PRODUCT PARAMETER	SPECIFICATION
pH (2% Soln. at 25 <sup>o</sup> C)	6.0 – 7.0
Loss on drying (at 105 <sup>o</sup> C)	NMT – 18.0%
Acid Insoluble Ash	NMT – 0.5%
Gelling Temp.	42 – 44 <sup>o</sup> C
Melting Temp.	85 – 88 <sup>o</sup> C
Total Ash	NMT – 5.0%
Gel Strength (1.5% Gel)	NLT – 900 gm/cm <sup>2</sup>
Starch Test/ Gelatin Test	Negative

### MICROBIAL PARAMETERS

PRODUCT PARAMETER	SPECIFICATION
Total viable count	NMT – 10,000 cfu/gm



<i>Escherichia coli</i>	Negative
<i>Salmonella spp.</i>	Negative
<i>Staphylococcus aureus</i>	Negative
Yeast & Moulds	NMT – 100 cfu/gm

**NOTE:** Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices.