

AS3743:2003 POTTING MIXES REPORT

1 sample supplied by Australian Growing Solutions Pty Ltd on the 11 October 2024. Lab Job No. R9927.

Analysis requested by Felicity Ashurst. **Your Job: AGS- Woodfibre Medium.**

12 McKirdys Road TYABB VIC 3913

		Sample 1	Guideline
		Product Name: AGS-Woodfibre Medium	AS3743:2003 Other Mixes
		Product Type: Woodfibre	
		Manufacturing Site: AGS	
		Manufactured Date: 7/10/2024	
		Test Code: CA-PACK-007	
		Standard Applicable: AS3743:2003	
Parameter	Method Reference	R9927/1	Premium
Wet Bulk Density (kg/L)	AS4454:2012 Appendix J	0.13	..
Dry Bulk Density (kg/L)	AS4454:2012 Appendix J	0.07	0.3-0.6
Moisture Content (%)		47	> 40
Air-filled Porosity (%)		53	≥ 13
Total Water Holding Capacity (%)	AS3743:2003 Appendix B	38	≥ 50
Wettability (min)	AS3743:2003 Appendix C	0m 4s	≤ 2
pH		5.81	5.3-6.5
Electrical Conductivity (dS/m)	AS3743:2003 Appendix D	0.04	≤ 2.2
Chloride (mg/L)	AS3743:2003 Appendix D	3	≤ 200
Ammonium Nitrogen (mg/L N)		0.1	≤ 100
Nitrate Nitrogen (mg/L N)	AS3743:2003 Appendix D	0.1	..
Ammonium plus Nitrate (mg/L N)	Calculation - Ammonium + Nitrate	0.2	≥ 50
Nitrogen Drawdown Index (NDI ₇₅)	AS3743:2003 Appendix E	>1.0	≥ 0.7
Plant Growth Test - Root Elongation (mm)	AS3743:2003 Appendix F	78	≥ 70
Calcium (mg/L)		18.3	≥ 80
Magnesium (mg/L)		6.81	≥ 15
Potassium (mg/L)	AS3743:2003 Appendix G ^{see note 6}	31.8	≥ 30
Sodium (mg/L)		1.49	≤ 130
Sulphur (mg/L)		14.2	≥ 40
Calcium/Magnesium Ratio	Calculation - Calcium/Magnesium	3	1.5-10
Potassium/Magnesium Ratio	Calculation - Potassium/Magnesium	4.7	1-7
Phosphorus (mg/L)	AS3743:2003 Appendix G ^{see note 6}	0.70	8-40
Zinc (mg/L)		0.19	0.3-10
Manganese (mg/L) ^{see note 5}		1.21	1-15 ^{see note 5}
Iron (mg/L)	AS3743:2003 Appendix G ^{see note 6}	1.13	≥ 25
Copper (mg/L)		0.03	0.4-15
Boron (mg/L)		0.02	0.02-0.65

Notes:

- Methods from AS3743:2003 Potting Mixes.
- Indicative guidelines are based on those in AS3743:2003.
- Conversions for 1 mg/L = 1 ppm; 1 % = 10,000 ppm.
- All soils should be free from any living parts (seeds, bulbs, corms, vegetative propagules and the like).
- If the concentration of manganese is greater than 15 mg/L, the procedure by water extraction should be applied. If the concentration is less than 2 mg/L by water extraction, the mix has met the requirements of this standard.
- The DTPA extracting solution (G3.1) is used for the determination of most nutrients and trace elements unless the mix contains zeolite or potassium <50 mg/L, where ammonium acetate extracting solution (G3.2) is used.
- < LOR Less than limit of reporting. ND Not detected. NA Not applicable. NR Not required.
- Testing completed in a NATA accredited laboratory.
- Analysis conducted between sample arrival date and reporting date.
- This report is not to be reproduced except in full. Results only relate to the item tested.
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- This report was issued on 29/10/2024.

Quality Checked: Brian Smith
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