

The Hills Premium Garden Mix



The Hills Premium Garden Mix is a superior growing media designed to support a range of plant species from exotics to most Australian Natives. It supports young plants and has the substance to remain an excellent mix long term. The Hills Premium Garden Mix has a structure that supports stable volume and a good organic content to encourage a healthy microbial ecosystem.

The Hills Premium Garden Mix is tested to the **Australian Standard 4419: 2018** Soils for Landscaping and Garden Use – Organic Soil Analysis. It is also tested against **Specification D3** Display Bed Soil from the text Soil for Landscape Development by **Leake and Haege**. We also test Bulk Density and Environmental Compliance as special requests as they are not included in the general standard testing suite.

JUNE 2020

TEST RESULTS:

Physical Properties	Unit	Target Range	Results	Comments
Texture	n/a	Sandy loam to clay loam	Loamy Sand	Acceptable
Organic Matter	% dwb	3 - 6	19	High - due to ash content
Organic Matter (Organic Soil Variant)	% dwb	15 - 25	19	Acceptable
Permeability (@ 16 drops)	mm/hr	> 50	5004	Accelerated
Wettability	mm/hr	> 5	79.1	Acceptable
Dispersibility in water	Category	1 or 2 (AS 4419) category	1	Acceptable
Large Particles				
2 - 20 mm	% ww	< 20	20.9	Acceptable
>20mm	% ww	<10	<0.01	Acceptable
Visible Contaminants >2mm (Glass, Plastic and Metal)	% w/w	< 25	<0.01	Acceptable
Chemical Properties	Unit	Target Range	Results	Comments
pH in water (1:5) Standard Range	pH Units	5.4 - 6.8	5.9	Acceptable
pH in CaCl ₂ (1:5) Standard Range	pH Units	5.2 - 6.5	5.5	Acceptable
pH in water (1:5) Alkaline Range	pH Units	6.8 - 8	5.9	Acceptable
pH in CaCl ₂ (1:5) Alkaline Range	pH Units	6.5 - 7.5	5.5	Acceptable
Electrical Conductivity (1:5)	dS/m	< 0.75	0.67	
Phosphorus - P-tolerant or standard plants acid soils method 18F1	mg/kg	<50	-	
Phosphorus - P-tolerant plants alkaline soils method 9B1 or 9C1	mg/kg	<20	10.1	Low
Phosphorus - P-sensitive plants, acid soils method 18F1	mg/kg	<50	-	
Phosphorus - P-sensitive plants alkaline soils method 9B1 or 9C1	mg/kg	<20	10.1	Acceptable
Exchangeable Sodium (Na)	% ECEC	<7	6.9	Acceptable
Exchangeable Potassium (K)	% ECEC	5 - 15	4.5	Low
Exchangeable Calcium (Ca) Method 18F1 or 15A1 in alkaline soils	% ECEC	60 - 80	64.7	Acceptable
Exchangeable Magnesium (Mg)	% ECEC	15 - 25	23.8	Acceptable
Exchangeable Aluminium (Al)	% ECEC	<2	0.2	Acceptable
Exchangeable Ca:Mg ratio	Ratio	3 - 9	2.7	Low
Available Iron (Fe)	mg/kg	100 - 400	479	High
Available Manganese (Mn)	mg/kg	25 - 100	17	Low
Available Zinc (Zn)	mg/kg	5 - 30	3.1	Low
Available Copper (Cu)	mg/kg	1 - 15	9.3	Acceptable
Available Boron (B)	mg/kg	0.5 - 5	0.7	Acceptable
Available N (N as Nitrate)	mg/kg	>50	0.67	Low



The Hills Premium Garden Mix tests as Grade A soil for Unrestricted Use. Bulk Density 0.71kg/L. Saturated Bulk Density 1.36kg/L