

CERTIFICATE OF ANALYSIS

Product Description MURASHIGE & SKOOG MODIFIED BASAL MEDIUM
 Product Number M5800
 Lot Number 10D5800005
 Storage Temperature 2-6° C

Physiochemical Specifications:

TEST	SPECIFICATION	RESULTS
Solubility	Soluble in Water	Passes
pH (4.43 g/L)	No Specification Established	4.88
Physical Appearance Color* Texture	No Specification Established Fine to Coarse Powder	2025-70 Light Yellow Fine Powder
Solution Appearance Clarity Color	Clear Colorless to Slight Yellow Tint	Clear Slight Yellow Tint
Average Time to Dissolve	Within 5 min	Passes
Insolubles	None	Passes

* Product color based upon comparisons between sample and standardized color wheel (Benjamin Moore® Color Preview™).

Biological Testing:

TEST SPECIFICATION	PLANT CELL LINE	RESULTS
Supports and/or facilitates plant growth and/or shoot proliferation in two or more plant tissue cultured lines with no morphological aberrations to plants	Strawberry	In Test
	Tobacco callus	In Test

The material described in this certificate was manufactured in the United States of America and is synthetic. No animal- or plant-derived components were used in the manufacture of this product.

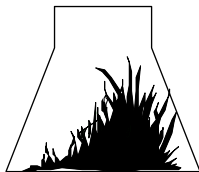
PhytoTechnology Laboratories® provides the above information intended to be used only as a guide to the appropriate handling of this material by a properly trained person. PhytoTechnology Laboratories shall not be held liable for any damage resulting from handling or from contact with the above product. This product is intended for LABORATORY USE ONLY. Our products may NOT BE USED as drugs, cosmetics, agricultural or pesticidal products, food additives or as household chemicals.

Recommended Shelf Life Date: April 2013

See page 2 for composition of raw materials used in the manufacture of this lot of medium.



Gary Seckinger, Ph.D.



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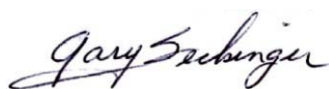


Created on 12 April 2010

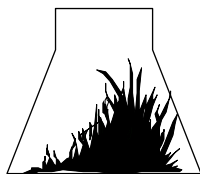
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The following components were used to manufacture this lot of M5800:

Prod. No.	Lot No.	Description	CAS No.	mg/L
A300	10C0300065	Ammonium Nitrate	6484-52-2	1650
B210	06A21004	Boric Acid	10043-35-3	6.2
C266	10B0266041	Calcium Chloride, Anhydrous	10043-52-4	332.2
C350	98A35001	Cobalt Chloride, Hexahydrate	7791-13-1	0.025
C375	07J37503	Cupric Sulfate, Pentahydrate	7758-99-8	0.025
E676	08G67606	Ferric Sodium EDTA	15708-41-5	36.7
M150	09G0150021	Magnesium Sulfate, Anhydrous	7487-88-9	180.7
M250	09B0250006	Manganese Sulfate, Monohydrate	10034-96-5	16.9
M651	99B65102	Sodium Molybdate(VI), Dihydrate	10102-40-6	0.25
P840	07J84004	Potassium Iodide	7681-11-0	0.83
P100	10C0100050	Potassium Nitrate	7757-79-1	1900
P846	09B0846028	Potassium Phosphate, Monobasic	7778-77-0	170
Z101	03K10103	Zinc Sulfate, Heptahydrate	7446-20-0	8.6
G503	08K50307	Glycine	56-40-6	2
I703	09G0703026	<i>myo</i> -Inositol	87-89-8	100
N765	08L76506	Nicotinic Acid	59-67-6	0.5
P866	08K86603	Pyridoxine Hydrochloride	58-56-0	0.5
T390	09A0390007	Thiamine Hydrochloride	67-03-8	0.1



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