



Plant Surface Sterilization Kit

Rapid removal of contaminants prior to in vitro culture

- ✓ **Based on proven sterilization with bleach and alcohol**
- ✓ **Ready-to-use solutions**
- ✓ **Room temperature storage and 2-year shelf life**
- ✓ **Plant culture media available in a variety of formulations**
- ✓ **Supporting line of plant nucleic acid purification products**

The Plant Surface Sterilization Kit is designed to sterilize seeds for germination and plant tissues for callus induction. Based on classical bleach/ethanol washing, the two solutions in this kit preserve plant tissue characteristics for successful growth while providing surface sterilization to remove contaminating microorganisms prior to *in vitro* incubation using sterile growth medium. The protocol is used as a standard guideline for surface sterilization and will work on a wide variety of seed and explant types.

Kit Contents and Procedure

Sterilization Solutions A and B, dissecting forceps, and re-useable polypropylene containers are provided in the kit. Seeds or explant tissues are first rinsed with sterile, distilled water (provided by the user) to remove any obvious contamination with dirt or other debris. The sample to be washed is then placed into the appropriate-sized container and submerged in Sterilization Solution A for 5 minutes. This solution is removed, and Sterilization Solution B is added. The sample is then incubated for 15 minutes, with occasional agitation, in this second solution. After three washes with sterile, distilled water, most seeds and explants are ready to transfer to culture media without further manipulation.

Related Products for Plant Research

The Plant Surface Sterilization Kit is just one part of the BIO 101[®] Systems line of plant molecular biology products offered by Qbiogene. Murashige & Skoog, Gamborg's B5 and Chu's N6 media formulations are available and custom recipes, sizes, and formats can be easily created. The FastPrep[®] System incorporates a unique sample lysis instrument with kits for nucleic acid purification: Silica-based kits are available for the purification of DNA from plants and from soil, and total RNA can be extracted via a single organic reagent followed by precipitation.

Ordering Information & Related Products

Cat #	Product Name	Size	Format
5100-200	Plant Surface Sterilization Kit, 50 preps	50	Kit
Related Products			
5110-033	Magenta Box GA7, Pack of 8	8	Pack
5110-053	Magenta Box GA7, 5 packs of 8	40	Case
5110-043	Magenta Box Tray (7-Way)	1	Each
5111-033	Petri Dishes, Sterile Polystyrene, 100 mm x 20 mm, 20 plates	20	Sleeve
5111-053	Petri Dishes, Sterile Polystyrene, 100mm x 20mm, 25 sleeves of 20	500	Case
5100-114	Murashige & Skoog Complete Medium (Salts, Vitamins, Sucrose), Liquid	500ml	Liquid
5100-125	Murashige & Skoog Complete Medium (Salts, Vitamins, Sucrose), 1 L Pouch	1 L	Powder
5100-225	Murashige & Skoog Complete Agar (Salts, Vitamins, Sucrose, Agar), 1 L Pouch	1 L	Powder
5100-335	Murashige & Skoog Basal Medium (Salts, Vitamins), 10 L Pouch	10 L	Powder
5100-035	Murashige & Skoog Basal Salts, 1 x 10 L Pouch	10 L	Powder
5100-414	Murashige & Skoog Micronutrients, 10X Liquid, 500 ml	500ml	Liquid
5100-514	Murashige & Skoog Macronutrients, 10X Liquid, 500 ml	500ml	Liquid
5100-042	Murashige & Skoog Vitamins Powder, 5 g	5g	Powder
5100-044	Murashige & Skoog Vitamins (1000X) Liquid, 20 ml	20ml	Liquid
5102-114	Chu's N6 Complete Medium (Salts, Vitamins, Sucrose), Liquid, 500 ml	500ml	Liquid
5102-125	Chu's N6 Complete Medium (Salts, Vitamins, Sucrose), 1 L Pouch	1 L	Powder
5102-225	Chu's N6 Complete Agar (Salts, Vitamins, Sucrose, Agar), 1 L Pouch	1 L	Powder
5102-335	Chu's N6 Basal Medium (Salts, Vitamins), 10 L Pouch	10 L	Powder
5102-035	Chu's N6 Basal Salts, 10 L Pouch	10 L	Powder
5102-054	Chu's N6 Basal Salts, 5X Liquid, 500 ml	500ml	Liquid
5102-042	Chu's N6 Vitamins Powder, 5 g	5g	Powder
5102-044	Chu's N6 Vitamins (1000X) Liquid, 20 ml	20ml	Liquid
5101-114	Gamborg's B5 Complete Medium (Salts, Vitamins, Sucrose), Liquid, 500 ml	500ml	Liquid
5101-125	Gamborg's B5 Complete Medium (Salts, Vitamins, Sucrose), 1 L Pouch	1 L	Powder
5101-225	Gamborg's B5 Complete Agar (Salts, Vitamins, Sucrose, Agar), 1 L Pouch	1 L	Powder
5101-335	Gamborg's B5 Basal Medium (Salts, Vitamins), 10 L Pouch	10 L	Powder
5101-035	Gamborg's B5 Basal Salts, 10 L Pouch	10 L	Powder
5101-014	Gamborg's B5 Basal Salts, 10X Liquid, 500 ml	500ml	Liquid
5101-042	Gamborg's Vitamins Powder, 5 g	5g	Powder
5101-044	Gamborg's Vitamins (1000X) Liquid, 20 ml	20ml	Liquid
6001-120	FastPrep® FP120A Instrument, 120V	1	Each
6045-050	FastRNA® Pro Green Kit (Plants and Animals)	50 preps	Kit
6540-400	FastDNA® Kit	100 preps	Kit
6560-200	FastDNA® SPIN Kit for Soil		

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