

Materials List for:

## Standardized Method for High-throughput Sterilization of Arabidopsis Seeds

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URL: <https://www.jove.com/video/56587>

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### Materials

Name	Company	Catalog Number	Comments
0.65 mL Microcentrifuge tubes	GeneMate	C-3260-5	Tube in which Arabidopsis thaliana seeds are placed to perform sterilization
1.7 mL Microcentrifuge tube	GeneMate	C-3262-1	Tube in which Arabidopsis thaliana seeds are placed to perform sterilization
7 L plastic container	Sistema	1016265438	Container in which gas sterilization is performed
Concentrated HCl	Sigma-Aldrich	320331	Chemical used in the process of creating chlorine gas
Disposable sterile inoculating loop	Fisher Scientific	22-363-603	Loop is used to spread or position Arabidopsis seeds on MS plates
Gamborg's vitamin solution	Sigma-Aldrich	G1019	Vitamin solution used in the process of making MS media
Household bleach	Clorox	Regular-Bleach	Chemical used in the process of creating chlorine gas and liquid sterilization
MES hydrate	Sigma-Aldrich	M2933	Chemical used in the process of making MS media
Micropore surgical tape	3M	1530-1	Microporous surgical paper tape used to seal MS plates
Murashige and Skoog basal salt mixture (MS)	Sigma-Aldrich	M5524	Chemical used in the process of making MS media
Parafilm M	Bemis Company	#PM996	Paraffin film used to seal sterilization container
Petri dish 100 X 15 mm	Fisher Scientific	FB0875713	Petri dishes in which MS media is poured for the purpose of growing Arabidopsis thaliana
pH indicator strips	Whatman	2613991	Used to check pH of neutralized chlorine and sodium bicarbonate solution
Phytoagar	Fisher Scientific	50-255-212	Used to aid in the suspension of Arabidopsis seeds in the process of plating seeds
Sodium bicarbonate	Sigma-Aldrich	S5761	Chemical used in the process of neutralizing chlorine gas reaction
Sucrose	Sigma-Aldrich	S0389	Chemical used in the process of making MS media
Tween 20	Fisher BioReagents	BP337-100	Chemical used in the process of liquid sterilization

Arabidopsis thaliana seeds	ABRC; order through TAIR www.arabidopsis.org	CS70000 (Col-0)	Arabidopsis wild-type seeds
Arabidopsis thaliana seeds	ABRC; order through TAIR www.arabidopsis.org	SALK_037606C	Arabidopsis seeds used in testing as a part of Group 1
Arabidopsis thaliana seeds	ABRC; order through TAIR www.arabidopsis.org	SALK_041402C	Arabidopsis seeds used in testing as a part of Group 1
Arabidopsis thaliana seeds	ABRC; order through TAIR www.arabidopsis.org	SALK_059101C	Arabidopsis seeds used in testing as a part of Group 1
Arabidopsis thaliana seeds	ABRC; order through TAIR www.arabidopsis.org	SALK_063470C	Arabidopsis seeds used in testing as a part of Group 1
Arabidopsis thaliana seeds	ABRC; order through TAIR www.arabidopsis.org	SALK_072048C	Arabidopsis seeds used in testing as a part of Group 1
Arabidopsis thaliana seeds	ABRC; order through TAIR www.arabidopsis.org	SALK_072240C	Arabidopsis seeds used in testing as a part of Group 1
Arabidopsis thaliana seeds	ABRC; order through TAIR www.arabidopsis.org	SALK_081989C	Arabidopsis seeds used in testing as a part of Group 1
Arabidopsis thaliana seeds	ABRC; order through TAIR www.arabidopsis.org	SALK_084124C	Arabidopsis seeds used in testing as a part of Group 1
Arabidopsis thaliana seeds	ABRC; order through TAIR www.arabidopsis.org	SALK_085049C	Arabidopsis seeds used in testing as a part of Group 1
Arabidopsis thaliana seeds	ABRC; order through TAIR www.arabidopsis.org	SALK_089717C	Arabidopsis seeds used in testing as a part of Group 1
Arabidopsis thaliana seeds	ABRC; order through TAIR www.arabidopsis.org	SALK_107354C	Arabidopsis seeds used in testing as a part of Group 1
Arabidopsis thaliana seeds	ABRC; order through TAIR www.arabidopsis.org	SALK_110111C	Arabidopsis seeds used in testing as a part of Group 1
Arabidopsis thaliana seeds	ABRC; order through TAIR www.arabidopsis.org	SALK_111322C	Arabidopsis seeds used in testing as a part of Group 1
Arabidopsis thaliana seeds	ABRC; order through TAIR www.arabidopsis.org	SALK_113109C	Arabidopsis seeds used in testing as a part of Group 1
Arabidopsis thaliana seeds	ABRC; order through TAIR www.arabidopsis.org	SALK_114702C	Arabidopsis seeds used in testing as a part of Group 1
Arabidopsis thaliana seeds	ABRC; order through TAIR www.arabidopsis.org	SALK_114872C	Arabidopsis seeds used in testing as a part of Group 1
Arabidopsis thaliana seeds	ABRC; order through TAIR www.arabidopsis.org	SALK_115657C	Arabidopsis seeds used in testing as a part of Group 1
Arabidopsis thaliana seeds	ABRC; order through TAIR www.arabidopsis.org	SALK_116803C	Arabidopsis seeds used in testing as a part of Group 1
Arabidopsis thaliana seeds	ABRC; order through TAIR www.arabidopsis.org	SALK_039445C	Arabidopsis seeds used in testing as a part of Group 2
Arabidopsis thaliana seeds	ABRC; order through TAIR www.arabidopsis.org	SALK_039782C	Arabidopsis seeds used in testing as a part of Group 2
Arabidopsis thaliana seeds	ABRC; order through TAIR www.arabidopsis.org	SALK_043037C	Arabidopsis seeds used in testing as a part of Group 2
Arabidopsis thaliana seeds	ABRC; order through TAIR www.arabidopsis.org	SALK_045828C	Arabidopsis seeds used in testing as a part of Group 2
Arabidopsis thaliana seeds	ABRC; order through TAIR www.arabidopsis.org	SALK_048556C	Arabidopsis seeds used in testing as a part of Group 2
Arabidopsis thaliana seeds	ABRC; order through TAIR www.arabidopsis.org	SALK_049514C	Arabidopsis seeds used in testing as a part of Group 2
Arabidopsis thaliana seeds	ABRC; order through TAIR www.arabidopsis.org	SALK_049725C	Arabidopsis seeds used in testing as a part of Group 2
Arabidopsis thaliana seeds	ABRC; order through TAIR www.arabidopsis.org	SALK_080816C	Arabidopsis seeds used in testing as a part of Group 2





Arabidopsis thaliana seeds	ABRC; order through TAIR www.arabidopsis.org	SALK_029335C	Arabidopsis seeds used in testing as a part of Group 5
Arabidopsis thaliana seeds	ABRC; order through TAIR www.arabidopsis.org	SALK_047760C	Arabidopsis seeds used in testing as a part of Group 5
Arabidopsis thaliana seeds	ABRC; order through TAIR www.arabidopsis.org	SALK_071275C	Arabidopsis seeds used in testing as a part of Group 5
Arabidopsis thaliana seeds	ABRC; order through TAIR www.arabidopsis.org	SALK_080530C	Arabidopsis seeds used in testing as a part of Group 5
Arabidopsis thaliana seeds	ABRC; order through TAIR www.arabidopsis.org	SALK_103881C	Arabidopsis seeds used in testing as a part of Group 5
Arabidopsis thaliana seeds	ABRC; order through TAIR www.arabidopsis.org	SALK_110864C	Arabidopsis seeds used in testing as a part of Group 5
Arabidopsis thaliana seeds	ABRC; order through TAIR www.arabidopsis.org	SALK_120294C	Arabidopsis seeds used in testing as a part of Group 5
Arabidopsis thaliana seeds	ABRC; order through TAIR www.arabidopsis.org	SALK_124390C	Arabidopsis seeds used in testing as a part of Group 5
Arabidopsis thaliana seeds	ABRC; order through TAIR www.arabidopsis.org	SALK_132808C	Arabidopsis seeds used in testing as a part of Group 5
Arabidopsis thaliana seeds	ABRC; order through TAIR www.arabidopsis.org	SALK_137036C	Arabidopsis seeds used in testing as a part of Group 5
Arabidopsis thaliana seeds	ABRC; order through TAIR www.arabidopsis.org	SALK_139519C	Arabidopsis seeds used in testing as a part of Group 5
Arabidopsis thaliana seeds	ABRC; order through TAIR www.arabidopsis.org	SALK_140643C	Arabidopsis seeds used in testing as a part of Group 5
Arabidopsis thaliana seeds	ABRC; order through TAIR www.arabidopsis.org	SALK_142288C	Arabidopsis seeds used in testing as a part of Group 5
Arabidopsis thaliana seeds	ABRC; order through TAIR www.arabidopsis.org	SALK_143304C	Arabidopsis seeds used in testing as a part of Group 5
Arabidopsis thaliana seeds	ABRC; order through TAIR www.arabidopsis.org	SALK_147597C	Arabidopsis seeds used in testing as a part of Group 5
Arabidopsis thaliana seeds	ABRC; order through TAIR www.arabidopsis.org	SALK_209076C	Arabidopsis seeds used in testing as a part of Group 5
Arabidopsis thaliana seeds	ABRC; order through TAIR www.arabidopsis.org	SALK_081081C	Arabidopsis seeds used in testing as a part of Groups 5 and 1
Arabidopsis thaliana seeds	ABRC; order through TAIR www.arabidopsis.org	SALK_107487C	Arabidopsis seeds used in testing as a part of Groups 5 and 2