INTERNATIONAL SEED TESTING ASSOCIATION (ISTA)

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Scope of ISTA Accreditation

Annex to the Accreditation Certificate - ISTA Standard Methods

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Test: Object - Sampling/Testing principle	Specific field of application includes species of:	ISTA Rules Chapter
Sampling from the lot: Obtain a representative sample - Manual sampling	Grasses	2
	Cereals	
	Small legumes	
	Pulses	
	Other agricultural crops	
	Vegetables	
	Tree and shrub species	
	Flower species	
Sampling from the lot of coated seeds: Obtain a representative sample - Manual sampling	Of species mentioned under manual sampling	2/11
Sampling from the lot: Obtain a representative sample - Automatic sampling	Grasses	2
	Cereals	
	Small legumes	
	Pulses	
	Other agricultural crops	
	Vegetables	
	Tree and shrub species	
	Flower species	
Sampling from the lot of coated seeds: Obtain a representative sample - Automatic sampling	Of species mentioned under automatic sampling	2/11
Purity and identification of other seeds: Determine the percentage composition and identity of species - Separation and weighing of fractions, determination of other seeds	Grasses	3/4
	Poa pratensis, Poa trivialis and Dactylis glomerata	
	Cereals	
	Small legumes	
	Pulses	
	Other agricultural crops	
	Vegetables	
	Tree and shrub species	

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Purity and identification of other seeds: Determine the percentage composition and identity of species - Separation and weighing of fractions, determination of other seeds	Flower species	3/4
Purity and identification of other seeds on coated seeds: Determine the percentage composition and identity of species - Separation and weighing of fractions, determination of other seeds	On species mentioned under Purity	3/11
Purity and identification of seeds mixture: Determine the percentage composition and identity of species - Separation and weighing of fractions, determination of other seeds	On species mentioned under Purity	3/4/18
Germination: Determine the germination potential - Germination on 400 seeds	Grasses	5
	Cereals	
	Small legumes	
	Pulses	
	Other agricultural crops	
	Vegetables	
	Tree and shrub seeds	
	Flower species	
Germination on coated seeds: Determine the germination potential - Germination on 400 seeds	On species mentioned under Germination	5/11
Germination weighed replicates: Determine the germination potential - Germination by weighed replicates	Betula spp., Eucalyptus spp.	13
Germination of seeds mixture: Determine the germination potential - Germination of components	On species mentioned under Germination	5/18
Viability: Estimate viability in general and of dormant seeds - Biochemical viability test	Grasses	6
	Cereals	
	Small legumes	
	Other agricultural crops	
	Vegetables	
	Tree and shrub seeds	
Seed Health: Determine health status - Blotter method	Alternaria dauci in Daucus carota	7-001a
Seed Health: Determine health status - Malt agar method	Alternaria dauci in Daucus carota	7-001b
Seed Health: Determine health status - Blotter method	Alternaria radicina in Daucus carota	7-002a
Seed Health: Determine health status - Malt agar method	Alternaria radicina in Daucus carota	7-002b
Seed Health: Determine health status - Blotter method	Botrytis cinerea in Helianthus annuus	7-003
	Leptosphaeria maculans and Plenodomus biglobosus on Brassica spp.	7-004
Seed Health: Determine health status - Malt agar or potato dextrose agar (PDA) method	Ascochyta pisi in Pisum sativum	7-005
Seed Health: Determine health status - Incubation in paper towels	Colletotricum lindemuthianum in Phaseolus vulgaris	7-006
Seed Health: Determine health status - Malt agar method	Alternaria linicola, Botrytis cinerea and Colletotrichum lini in Linum usitatissimum	7-007
Seed Health: Determine health status - Blotter method	Drechslera oryzae in Oryza sativa	7-010
	Pyricularia oryzae in Oryza sativa	7-011
	Alternaria padwickii in Oryza sativa	7-012
Seed Health: Determine health status - Extraction and clearing of embryos	Ustilago nuda in Hordeum vulgare	7-013a
Seed Health: Determine health status - Malt agar or potato dextrose agar (PDA) method	Stagonospora nodorum in Triticum aestivum	7-014
Seed Health: Determine health status - Immunoblot method (test kit)	Epichloe coenophiala in Festuca spp and Neotyphodium lolii in Lolium spp.	7-015
Seed Health: Determine health status - Acidified potato dextrose agar (PDA) method	Phomopsis complex in Glycine max	7-016

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Seed Health: Determine health status - Dilution-plating assay method	Xanthomonas campestris pv. campestris on Brassica spp.	7-019a
	Xanthomonas campestris pv. campestris in disinfested/disinfected Brassica spp.	7-019b
	Xanthomonas hortorum pv. carotae in Daucus carota	7-020
	Xanthomonas axonopodis pv. phaseoli and X. axonopodis pv. phaseolis var. fuscans in Phaseolus vulgaris	7-021
Seed Health: Determine health status - Malt agar method	Microdochium nivale and M. majus in Triticum spp.	7-022
Seed Health: Determine health status - Dilution-plating assay method	Pseudomonas savastonoi pv. phaseolicola in Phaseolus vulgaris	7-023
Seed Health: Determine health status - ELISA	Pea early browning and Pea seed-borne mosaic Virus in Pisum sativum	7-024
	Squash mosaic, Cucumber green mottle mosaic and Melon necrotic spot virus in Cucurbits	7-026
Seed Helath: Determine health status - Local lesion assay method	Tobaco mosaic and Tomato mosaic viruse in Solanum lycopersicum	7-028
Seed Health: Determine health status - Dilution-plating assay method	Pseudomonas syringae pv. pisi in Pisum sativum	7-029
Seed Health: Determine health status - PCR method	Acidovorax valerianellae in Valerianella locusta	7-030
Verification of species and variety: Verify if species/variety corresponds to the species/variety as requested - Examination of seedlings (fluorescence of root traces)	Lolium spp.	8.11.4
Moisture content: Determine moisture content - Constant temperature oven method: fine grinding	Species of Table 9A Part 1 as applicable	9
Moisture content: Determine moisture content - Constant temperature oven method: no grinding	Species of Table 9A Part 1 and 2 as applicable	
Moisture content: Determine moisture content - Constant temperature oven method: coarse grinding	Species of Table 9A Part 1 and 2 as applicable	
Moisture content: Determine moisture content - Constant temperature oven method: cutting	Species of Table 9A Part 1 and 2 as applicable	
Weight determination: Determine weight per 1000 seeds - Counting and weighing	Grasses	10
	Cereals	
	Small legumes	
	Pulses	
	Other agricultural crops	
	Vegetables	
	Tree and shrub seeds	
	Flower species	
Weight determination on coated seeds: Determine weight per 1000 seeds - Counting and weighing	On species mentioned under Weight Determination	10/11
Weight determination on seed mixture: Determine weight per 1000 seeds - Counting and weighing	On species mentioned under Weight Determination	10/18
X-ray: Identify if seed is filled - X-ray	Table 2A	14
Vigour: Estimate planting value and/or storage potential - Conductivity test	Cicer arietinum, Pisum sativum, Phaseolus vulgaris, Glycine max, Raphanus sativus	15.8.1
Vigour: Estimate planting value and/or storage potential - Accelerated ageing (AA)	Glycine max	15.8.2
Vigour: Estimate planting value and/or storage potential - Controlled deterioration (CD)	Brassica spp.	15.8.3
Vigour: Estimate planting value and/or storage potential - Radicle Emergence (RE)	Brassica napus, Zea mays, Raphanus sativus	15.8.4

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Size grading: Determine percentage mass composition according to seed size - Size grading with screens	All species of Table 2A	16