



Oregon Seed Certification Service
<http://seedcert.oregonstate.edu>

**CERTIFICATION STANDARDS
 ESSENTIAL OIL INDUSTRIAL HEMP**
 (*Cannabis sativa* L.)
 Revised February 16, 2022

Certification Standards: The general standards for seed certification found in the Oregon Seed Certification Service (OSCS) Handbook are basic to all crops and, together with the following specific regulations constitute the standards for certified essential oil industrial hemp.

Varieties Certified: Only varieties approved for production by Federal or local regulatory authorities may be eligible for seed certification.

Field History: To produce Foundation or Registered seed, land must not have been grown or seeded to any *Cannabis* sp. during the previous three years. To produce Certified seed, land must not have grown or been seeded to any *Cannabis* sp. in the previous 2 years. This may be reduced to one year if the same variety and certified. Hemp must be planted in distinct rows. OSCS must approve exceptions prior to planting. To produce Certified Seed in greenhouse production, the greenhouse must be free of all plants a minimum of six weeks prior, unless the previous variety was the same variety and Certified. Sanitation may be considered in lieu of the six weeks, and a plan must be submitted to and approved by OSCS prior to production.

Greenhouse and Field Inspections: Three inspections may be required depending on the variety type and production generation; at least two inspections are required prior to seed harvest. Crop inspection of pollen donor and pollen receptors must be inspected at a stage of growth when varietal purity is best determined. Crops not inspected at the proper stage for best determining variety purity may be cause for declining certified status. The first inspection for pollen donor and pollen receptor types occurs just before or at early flowering, the second must occur at mid-bloom with active pollen shed, normally within 3 weeks after first inspection; the third inspection, if necessary, occurs when off- type female flowers can be identified. Applications shall be made within 7 days of placement of seedlings in the greenhouse or field. For fields directly seeded, applications shall be made within 14 days of planting.

Field Standards:

Class of Seed Produced	Variety Type	Maximum Number of Dioecious Male Plants Shedding Pollen ¹	Off Types ²	Number of Inspections	Isolation Distance Required		
					From different varieties of hemp or contaminating pollen source that has pollen present, or non-certified Hemp	Fields planted with Certified seed of the same variety	From same variety and meets certification standards
Foundation ³	Conventional	1	0	3	21,120 ft	15,840 ft	16 ft
	Clonal	--	0	3			
Registered ³	Conventional	2	10	3	21,120 ft	15,840 ft	3 ft
	Clonal	--	10	2			
Certified ³	Conventional	100	10	2	21,120 ft	15,840 ft	3 ft
	Clonal	--	10	2			
	Hybrid	100	10	2			
	Feminized	0	20	2			

¹ Maximum impurities allowed per 10,000 plants; applied as an average of six counts involving at least 10,000 plants each. Includes off-types or other varieties. For greenhouses maximum impurities allowed per 1,000 plants; applied as an average of six counts involving at least 1,000 plants each. If less than the required number of plants are present, all plants will be observed and used in calculations.

² If Dioecious male plants start flowering before removal from field, all plants around them should be destroyed for a radius of 10 feet for Foundation and 7 feet for Registered seed crops.

³ An OSU Seed Lab Orobancha exam is required if small broomrape is found in a certification field inspection. Two samples are to be submitted in separate containers: one for the Orobancha exam, the other for standard purity and viability testing.

Greenhouse Standards: Each greenhouse facility is limited to one pollen source

Class of Seed Produced	Variety Type	Maximum Number of Dioecious Male Plants Shedding Pollen ¹	Off Types	Number of Inspections	Isolation Distance Required*		
					From different varieties of hemp or contaminating pollen source that has pollen present, or non-certified Hemp	Fields planted with Certified seed of the same variety	From same variety and meets certification standards
Foundation ³	Conventional	1	0	3	21,120 ft	15,840 ft	16 ft
	Clonal	--	0	3			
Registered ³	Conventional	2	1	3	21,120 ft	15,840 ft	3 ft
	Clonal	--	1	2			
Certified ³	Conventional	100	2	2	21,120 ft	15,840 ft	3 ft
	Clonal	--	2	2			
	Hybrid	100	2	2	21,120 ft	15,840 ft	3 ft
	Feminized	0	2	2			

***Isolation distances may be waived if pollen exclusion methods are documented and submitted prior to inspection**

Seed Standards: (Minimum Sample Size – 1000 grams, excess seed will be returned)

Factor	Foundation	Registered	Certified (Blue tag)
Pure seed, minimum	98.00%	98.00%	98.00%
Other crops, maximum	0.01%	0.03%	0.08%
Inert matter, maximum ⁴	2.00%	2.00%	2.00%
Weed seed ⁵ , maximum	0.10%	0.10%	0.10%
Other varieties, maximum	0.005%	0.01%	0.05%
Other kinds ⁶ , maximum	0.01%	0.03%	0.07%
Germination	85.00%	85.00%	85.00%
Feminized seed ⁷	--	--	99.9%

Special notes:

- A. Greenhouse production – For certification purposes, a greenhouse will be identified as a single “field.” This should match the warehouse information given to ODA.
- B. Growers may be required by OSCS to obtain and submit additional testing before the seed can be certified. In addition, growers must meet all applicable State and Federal requirements.
- C. Growth facility must only contain certified hemp production.

⁴ Inert Matter shall not include more than 0.5% of material other than seed fragments of the variety under consideration

⁵ None of the prohibited weeds listed in Section V in the OSCS Handbook, nor any docks, sheep sorrel or St. Johnswort allowed in any class of seed.

⁶ Other kinds shall not exceed 2 per lb. (454 grams) for Foundation; 6 for Registered; 10 for Certified

⁷ Determined by Variety Verification Trial or approved molecular testing.