



ILLINOIS CROP IMPROVEMENT ASSOCIATION INC.

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Amaranth Weed Identification Pricing

Amaranth weed seed identification is based on DNA analysis of plant tissue grown from unknown weed seeds. Only seeds that produce plants are able to be tested. Overall costs will vary depending on whether the sample needs to be separated, the number of seed planted, and how many final plants are analyzed.

Seed Separation: Customers can submit pure weed seed or seed samples with weed seed contaminants for separation by the Seed Lab. There are two options for seed separation, either a Purity or a Component Separation. A Purity is done on a defined amount of the sample that is determined by AOSA Purity testing requirements. Purity costs are based on crop, call for pricing. Component Separations are performed on an alternate amount of the sample per the customer's request. Component Separations are a flat hourly rate and will need to be approved by the Seed Lab Director and by the customer prior to being conducted due to the time and cost involved.

Purity – Call for pricing, ask for Steve Beals

Component Separation - \$50 per hour. Call for approval, ask for Steve Beals

Tissue Growout: The unknown weed seed is grown in the greenhouse to produce plants that may then be sampled for testing. Visual screening when possible will be conducted prior to tissue sampling to classify plants morphologically. Once representative plants are of sufficient size, tissue samples will be harvested and submitted to the University of Illinois Plant Clinic for DNA analysis. Depending on the germination rate of the seed and how many seeds were initially planted, the number of plants available to test may vary greatly. IL Crop will contact the customer to inquire how many of the plants the customer would like to have sampled for final DNA analysis.

Tissue Growout - \$30 per sample

DNA Analysis: Tissue from the plants grown from seed are harvested and then taken to the University of Illinois Plant Clinic for DNA analysis. The number of plants to be sampled will be confirmed with the customer prior to analysis. Bulk testing of tissue is not available

DNA Analysis: \$30 per plant

PRICING EXAMPLES

Example 1

A 30 seed sample of unknown amaranth seeds is submitted for testing. The seeds are grown out and 6 seeds germinate and produce plants. The customer requests all 6 plants be submitted for DNA analysis.

	Amount	Price	Total
Tissue Growout	1 sample	\$30.00	\$30.00
DNA Analysis	6 plants	\$30.00	\$180.00
Grand Total			\$210.00

Example 2

Three flower seed samples are submitted; A, B & C. Each sample must have the weed seeds separated from the flower seeds and the customer wants a Component Separation. It takes 1 hour each to separate samples A and B, while sample C takes 2 hours to separate. The number of weed seed separated from each sample are A=45, B=61, C=306. Tissue growouts are done on the three samples and the number of plants available for testing for each is A=32, B=19, C=73. The customer decides to test 8 plants for sample A, 5 plants from sample B, and 10 plants from sample C for a total of 23 plants submitted for DNA analysis.

	Amount	Price	Total
Component Separation	4 hours	\$50.00	\$200.00
Tissue Growout	3 samples	\$30.00	\$90.00
DNA Analysis	23 plants	\$30.00	\$690.00
Grand Total			\$980.00