

Test Number: 75787
Account #: 12345

ISU Seed Lab

Rule: AOSA
Format: Raw
Date Printed: 6/7/2023
Date Received: 6/7/2023

Unofficial Report

Note: This is not a bill – You will be billed separately

Type of Seed: RYE
Variety Name: Cyclone
Lot Number: Cy
Date Germ Completed: 12/30/2022

Purity					
Test	Pure Seed %	Other Crop %	Inert Matter %	Weed Seed %	Purity Weight (grams)
Purity	99.77	0.00	0.23	0.00	78.66
Weeds		# Found	Other Crops		# Found
None Found.			None Found.		

Noxious						
Test	Min Wt	Sample Wt	Tested Wt	Noxious Weeds	#/Pound	# Found
IA Noxious	500.0	1250	505.9	None Found.		

Germination								
Test	Normal	Hard	Dormant	Viable	Abnormal	Dead	# Seeds	Days
Germ - RYE	92.00	0.00	3.00	95.00	2.00	3.00	400	10
Abnormalities: Insufficient roots, Decayed Seedling Fungi: Fusarium								

Other Determinations			
Test	Tz Viable	Hard Avg	No. Seeds
Tetrazolium	96	0	200

Test	Seeds Per Pound	
Seed Count	75.00	

Remarks:
Fee: \$88.00

Varietal Purity guaranteed by labeler. The analysis report shown above is accurate only for the sample received at the laboratory. Whoever makes use of this information for labeling purposes is guaranteeing that the sample is representative of the lot of seed from which it was drawn. No liability shall attach to Iowa State University or to any employee thereof with respect to this process or report.

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Unofficial Report

Jessica Blake
Registered Seed Technologist

Charles Block
Seed Health Coordinator

Michael G. Stahr
Manager, Seed Testing Laboratory

Rule: AOSA, ISTA, Canada (M&P)

Format: Raw, Treated, Film-Coated, Coated, Encrusted, Pelleted

Date Printed: Date all testing completed, unless it is a preliminary report

Date Germ (test) Completed: Law requires Germ Date be listed separately from completion date of all testing.

Purity test: Done on approximately 2,500 seeds. Identifies all species of seed found plus inert matter (seed coats, insects, seeds less than half present, etc.).

Noxious Weed Exam:

- Done on approximately 25,000 seeds. Exams can be for: a particular state, all states, a given region of the U.S., undesirable grass seed (UGS), Canadian or "Foreign".
- The Federal Seed Act allows a Noxious Weed exam to be ended when a certain level of noxious weed seeds is found.

Germination								
Test	Normal	Hard	Dormant	Viable	Abnormal	Dead	# Seeds	Days
Germ - RYE	92.00	0.00	3.00	95.00	2.00	3.00	400	10
Abnormalities: Insufficient roots, Decayed Seedling Fungi: Fusarium								

Other Determinations			
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Germination (Germ) test:

- Official test requires 400 seeds, except in a mixture a minor component can have 200 seeds tested.
- Adding the percentages of normal seedlings, dormant seeds and hard seeds results in the % Total Viable.
- Pure Live Seed (PLS) % is determined by multiplying the percent normal by the percent pure seed.
- “Abnormalities” is an explanation of types of damage (mechanical, fungal, possibly genetic) found that keep seedlings from being classified as normal.
- Dormant seeds are those that take up moisture, but don't grow further. Determined using TZ.
- Hard seeds can be in dicot species (soybean, alfalfa, etc.) and are caused by impermeable seed coats.

- **Other Determinations** (part of report with tests other than Purity, Noxious, and Germination)
- Tetrazolium (TZ) test can be a stand-alone test or used at the end of a Germination test to determine if seeds are alive or dead. Stand-alone test is done on 200 seeds.
- Seed Count plus other tests: Moisture, Fast Green, Hypochlorite Soak, Test Weight, etc.

Fee: This isn't an invoice. Price is provided as a courtesy.

Reports of Analysis are available in the ISU Seed Lab's web locker system and can be sent by email or mail.