

## Seed Analysis Card

Lab Test No.: .....

Kind:  
Date of Registration:  
Weight of sample:        gm.  
Lot no./Mark:

Balance Name:  
Variety:  
Class:

Test desired: Germination/Purity/Moisture/Other Determination/1000 Seed Wt./ Seed Health/TZ Test/Vigour Test

PHYSICAL PURITY TEST						Weight of working sample (g) (a) Original: ..... (b) Final: .....	
Components	Grams	%	Grams	%	Average %	Kind and no. of admixtures	Remarks
Pure Seed							
Other Crop Seed							
Weed seed	Common						
	Objectionable						
	Total						
Inert Matter							
<b>Total</b>						Analysed by: ..... Date: ..... Unit In-charge: ..... Date: .....	

MOISTURE TEST						OTHER SEED DETERMINATION TEST		1000 SEED WEIGHT TEST (gm.)											
Method s	i	ii	iii	Average %	Remarks	Components	No/kg	Test 1 (8 replications)						Test 2 (16 replications)					
By Oven						Other Distinguishable Variety		100 seeds	x	x2	100 seeds	x	x2	10 seeds	X	x2	100 seeds	x	x2
By Meter						Other Crop Seed		R1			R5			R9			R13		
							R2			R6			R10			R14			
							R3			R7			R11			R15			
Analysed by: ..... Date: .....						Weed Seed		R4			R8			R12			R16		
								Σx =			S.D =			Σx =			S.D =		
								Σx²=			C.V=			Σx²=			x ± 2SD = ..... to .....		
Unit In-charge: ..... Date:.....						Analysed by: ..... Date ..... Unit In-charge: ..... Date:.....		X=			1000 seed wt.= X × 10 = ..... gm.			X=			X =		
								Variance =						Variance =			X × 10 = ..... gm		
														Analysed by: ..... Unit In charge: .....					

SEED HEALTH						
..... Method						
Description	Common	Designated	Total			
Name of disease observed						
Causal Organism						
% of infection						
Analyzed by..... Date.....						
Unit In-charge..... Date .....						
VIABILITY TEST						
Categories	rep 1	rep2	rep3	rep 4	Total	Average
Viable						
Non-viable						
Hard						
Total						
Analyzed by..... Date.....						
Unit In-charge..... Date .....						

VIGOUR TEST		
..... METHOD		
LAB NO./VARIETY/LOT NO.	G% BEFORE VIGOUR TEST	G% AFTER VIGOUR TEST

## Germination Test

Lab Test No.: .....

Germination test begun:

Substratum:

Temperature: °C

Special treatment:

Quantity of Lot:

Seed placed by:

Kind:

Variety:

Production year:

No. of seeds tested: 100×4 Rep = (400 seeds)

Balance Name:

No of Germinator:

Name of Oven:

Date of count				Replications									Tolerance		
				1	2	3	4	5	6	7	8	Total	Average %	For repeated tests	Two
Normal seedlings	.....First count ... Days												Maximum difference= Maximum Tolerated range= Maximum difference= Maximum Tolerated range=		
	.....Final count ... Days														
	Total														
Abnormal Seedlings	Damage seedlings	Cotyledon/shoot	a) Cracked												
			b) Completely separated												
		Badly cracked and splitted	a) Hypocotyls												
			b) Epicotyls												
			c) Cotyledons												
		Coleoptile	Damaged												
			Broken												
		Primary roots	Split												
			Stunted												
			Missing												
		Primary roots	Retarded												
			Spindly												
	Deformed or Unbalance Seedlings	Short and thick	Hypocotyl												
			Mesocotyl												
			Epicotyl												
		Long, twisted or spiraled	Hypocotyl												
			Epicotyl												
			Mesocotyl												
		Curled cotyledons	Coleoptile												
		Discolored or necrotic cotyledons													
		Split coleoptile													
		Seedlings	Yellow or white												
Spindly or glassy															
Decayed Seedlings															
Total															
Ungerminated Seed	Fresh														
	Hard														
	Dead														
	Total														
Grand total															

Seed Analyst: .....

Date: .....

Unit In-charge: .....

Date: .....

## Sample Detail Form

Laboratory Test Number: Date sample sent:	Date of sample received: Remarks:
<b><u>To be filled up by Sender</u></b>	
Species/kind: .....	
Mark (✓) class of seed (Certification system): Breeder seed      Foundation seed      Certified seed      Improved seed      Any other (specify): .....	
Mark (✓) class of seed (Truthful labelling): Breeder seed      Source seed      Label seed      Improved seed      Any other (specify) : .....	
Mark (✓) required seed analysis (a) Purity                                  (d) Moisture content                                  (g) Any other (please specify): ..... (b) Germination                                  (e) Seed health (c) Other Seed Determination      (f) 1000 seed weight	
Name and address of sender: .....	
Signature of the sender: ..... Date signed: .....	
Lot number or Identification: .....	No. of bags or other containers: .....
Weight of lot (size): ..... (kg)	Container size: ..... (kg)
Number of primary samples taken (N): .....	
If seed treated (By chemical), Name: ..... Dose: .....	
Production year: .....	
Date of sampling: ..... Place of sampling.....	
Sampled by: ..... Signature of the sampler.....	
Remarks, if any: .....	

## Seed Lot Test Report

Sample Received: ..... Test No: ..... Lot No/Mark: ..... Test begun: ..... Test completed date: ..... Quantity of the seed Lot: ..... Date of Sampling: ..... Sampled by: ..... Weight of sample: .....	Kind/Crop: ..... Variety: ..... Class: ..... Sender's name: ..... Address: ..... Method of Germination Testing: ..... Temperature: ..... Address of Sampler: ..... Collection: .....
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Seed Analysis (in Percentage)							
Pure Seed	Other Crop Seed	Weed Seed	Inert Matter	Moisture	Germination	1000 Seed Wt. (gm)	Remarks/Special Treatment
Other Seeds Determination by Number Test (including no. of OCS, WS found in purity analysis)							
Other Crop Seed /1000 grams Kind/No: 0		Other Distinguishable Variety (ODV) /1000 grams Kind/No.: 0				Weed Seed /1000 grams Kind/No.: 0	

Hard:                                      Fresh:                                      Abnormal:                                      Dead:

**Remarks:**

**Sample received: Treated/un-treated**

**Moisture Tested by: Oven Method (Fine Grinding Temperature at 130<sup>o</sup>-133<sup>o</sup> C for 4 hours)**

	Good Seed		Cultivar name mentioned in sample is not appropriate
	Other quality attributes are good but low Germination(Truthful labeling/Certification).		Submitted sample is not enough for complete analysis
	Further cleaning is necessary to meet minimum seed Standards in case of WS (weed seed)		Highly damaged by insects.
	Further cleaning is necessary to meet minimum seed Standards in case of OSD ( other crop seed)		Highly diseased and moldy sample.
	Further cleaning is necessary to meet minimum seed Standards in case of IM (Inert matter)		Further seed drying is necessary to meet minimum seed Standards for Moisture.

**Note:**

- Results included in this report are based on Seed Lot inspection and sampling from the authorize sampler of this Laboratory. Hence, submitted sample represents whole seed lot.
- Quality of seed entirely depends upon condition of storage, probable fluctuation of seed moisture, insects and pest damage during storage even though the result is satisfactory during the laboratory testing. So, seed producers, traders and buyers are responsible for protecting the quality of seed from all these adverse climatic condition during storage. Laboratory will not responsible, if otherwise.
- Seed Lot Test reports are only valid for 6 months from the date of laboratory testing, if storage condition of seed lot is appropriate, and revalidation is must thereafter.

**Report prepared by:**

Signature: .....  
 Name: .....  
 Designation: .....  
 Date: .....

**Verified by:**

Signature: .....  
 Name: .....  
 Designation: .....  
 Date: .....

**Authorize Signature**

Signature: .....  
 Name: .....  
 Designation: .....  
 Date: .....

## Seed Sample Test Report

Sample Received: .....

Test No: .....

Lot No/Mark: .....

Test begun: .....

Test completed date: .....

Quantity of the seed Lot: .....

Date of Sampling: .....

Sampled by: .....

Weight of sample: .....

Kind/Crop: .....

Variety: .....

Class: .....

Sender's name: .....

Address: .....

Method of Germination Testing: .....

Temperature: .....

Address of Sampler: .....

Collection: .....

Seed Analysis (in Percentage)							
Pure Seed	Other Crop Seed	Weed Seed	Inert Matter	Moisture	Germination	1000 Seed Wt. (gm)	Remarks/Special Treatment
Other Seeds Determination by Number Test (including no. of OCS, WS found in purity analysis)							
Other Crop Seed /1000 grams Kind/No.: 0			Other Distinguishable Variety (ODV) /1000 grams Kind/No.: 0			Weed Seed /1000 grams Kind/No.: 0	

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