

Package: SeedVigorIndex (via r-universe)

August 30, 2024

Type Package

Title Seed Vigor Index

Version 0.1.0

Maintainer Tanuj Misra <tanujmisra102@gmail.com>

Description Seed vigor is defined as the sum total of those properties of the seed which determine the level of activity and performance of the seed or seed lot during germination and seedling emergence. Testing for vigor becomes more important for carryover seeds, especially if seeds were stored under unknown conditions or under unfavorable storage conditions. Seed vigor testing is also used as indicator of the storage potential of a seed lot and in ranking various seed lots with different qualities. The vigour index is calculated using the equation given by (Ling et al. 2014) <[doi:10.1038/srep05859](https://doi.org/10.1038/srep05859)>.

License GPL-3

Encoding UTF-8

NeedsCompilation no

Author Sudip Kumar Dutta [aut, cph], Tanuj Misra [aut, cre, cph]

Repository CRAN

Date/Publication 2024-05-31 14:22:46 UTC

Contents

SeedVigorIndex	2
Index	3

SeedVigorIndex

Seed Vigor Index

Description

Measurement of Seed Vigor Index using seedling length and germination percentage.

Usage

```
seed_VI(seedling_length, germ_percent)
```

Arguments

```
seedling_length      seedling length (in cm)
germ_percent         germination percentage
```

Value

Vigor Index (VI)

References

Ling L, Jiafeng J, Jiangang L, Minchong S, Xin H, Hanliang S, Yuanhua D (2014) Effects of cold plasma treatment on seed germination and seedling growth of soybean. *Sci Rep* 4:5859. \ Dutta, S. K., Layek, J., Akoijam, R. S., Boopathi, T., Vanlalhmangaiha, Saha, S., & Prakash, N. (2019). Seaweed extract as natural priming agent for augmenting seed quality traits and yield in *Capsicum frutescens* L. *Journal of applied phycology*, 31, 3803-3813.

Examples

```
seedling_length <- 7.2
germ_percent <- 52
seed_VI(seedling_length, germ_percent)
```

Index

* **Seed Vigor Index**

SeedVigorIndex, [2](#)

seed_VI (SeedVigorIndex), [2](#)

SeedVigorIndex, [2](#)