

Package ‘SeedVigorIndex’

January 20, 2025

Type Package

Title Seed Vigor Index

Version 0.1.0

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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)>.

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Encoding UTF-8

NeedsCompilation no

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Repository CRAN

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

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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)
```

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* **Seed Vigor Index**

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