

Botany/Plant Parts

Grain/Kernel = Seed

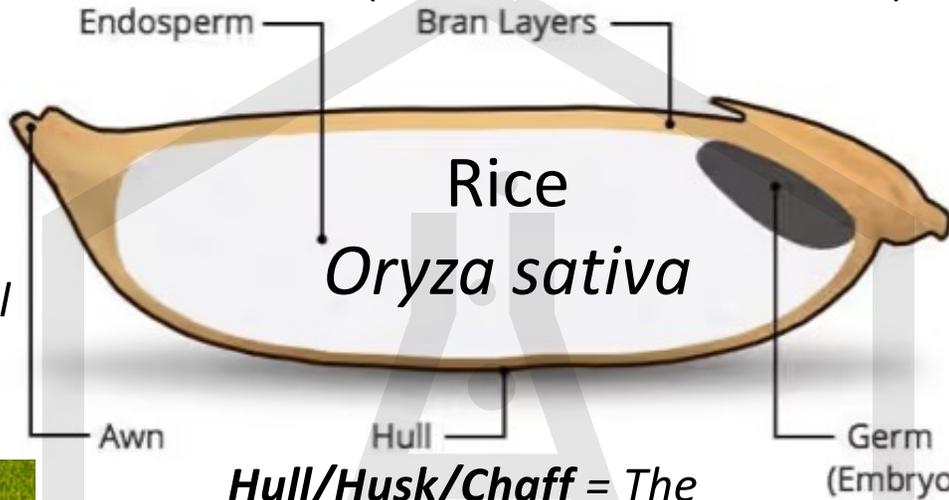
Endosperm =
Starchy inner part
(White Rice)

Awn = The long, needle-like structure on the distal end of the lemma in rice florets.

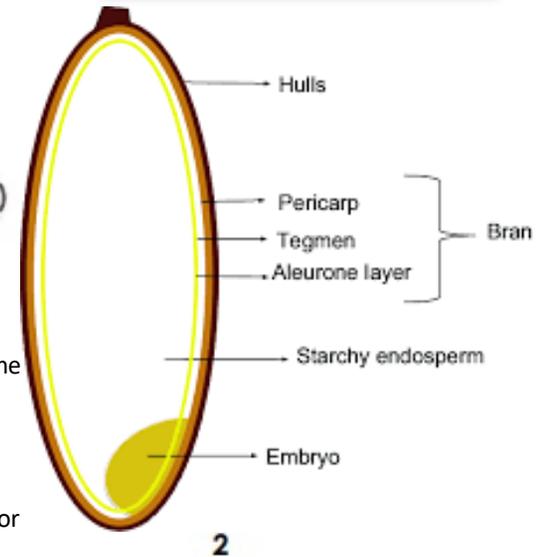
Plant of the Month

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\\NAS\station15\Plant of the Month\

Bran = The outer layer of the edible Grain (Brown/Whole Grain Rice)



Hull/Husk/Chaff = The hard, inedible shell.



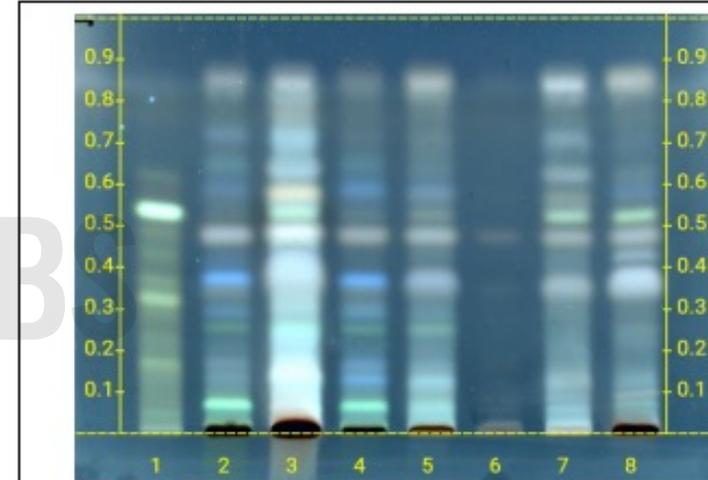
Plant Part & Form: hull, crude powder

Reference Sample: Lane 2(10µl) (23165BVM) *Oryza sativa* (hull); Lane 3(6µl) (GT03111CV) *Oryza sativa* (bran); Lane 7(8µl) (GT12113NAMX1) *Oryza sativa* (grain); Lane 8(8µl) (GT27413REIM1) *Oryza sativa* (sprout mature)

Stationary Phase: Silica gel 60, HPTLC plates

Suitability Control: Lane 1(3µl) Gamma-Oryzanol (B02826674, SigAl), Methanol (23G1961051, VWR)

Conclusion: Lane 5 is the test sample. Lanes 2, 3, 7, 8, are the reference samples used for comparison.



References

1. Image: <https://360nomad.org/planting-rice/>
2. Image: <https://www.allrecipes.com/recipe/27072/mexican-rice-ii/>

Botany Section:

1. Image & Info: <https://www.riceland.com/anatomy-of-rice>
2. <https://www.facebook.com/groups/299612244008643/posts/1769449623691557/>
3. <https://www.malysiarice.com/rice-anatomy/>
4. https://en.wikipedia.org/wiki/Rice_hull
5. <https://pmc.ncbi.nlm.nih.gov/articles/PMC8655829/>
6. <https://grainofriceyeg.com/faqs#:~:text=The%20smallest%20unit%20of%20a%20rice%20grain,is%20composed%20of%20thousands%20of%20these%20kernels.>