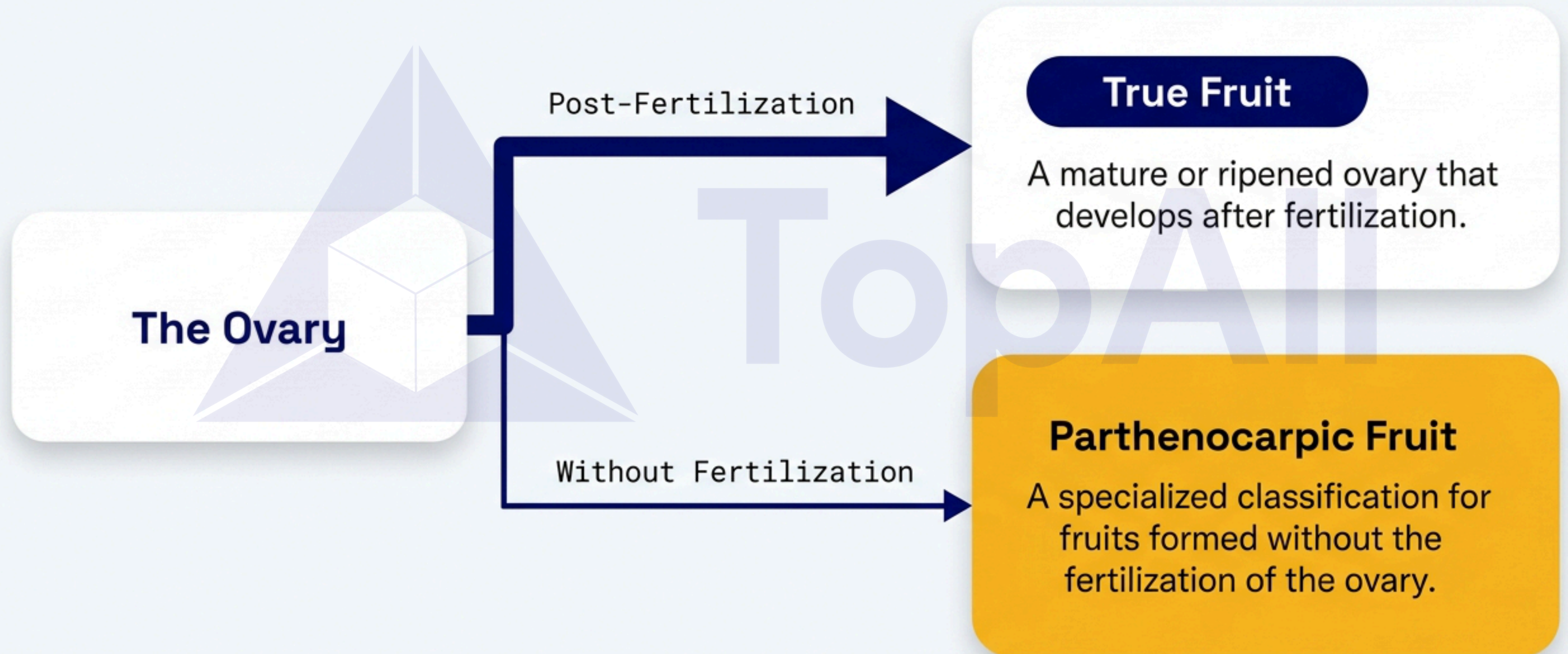




From Ovary to Fruit

The morphology, structure, and classification of the angiosperm fruit

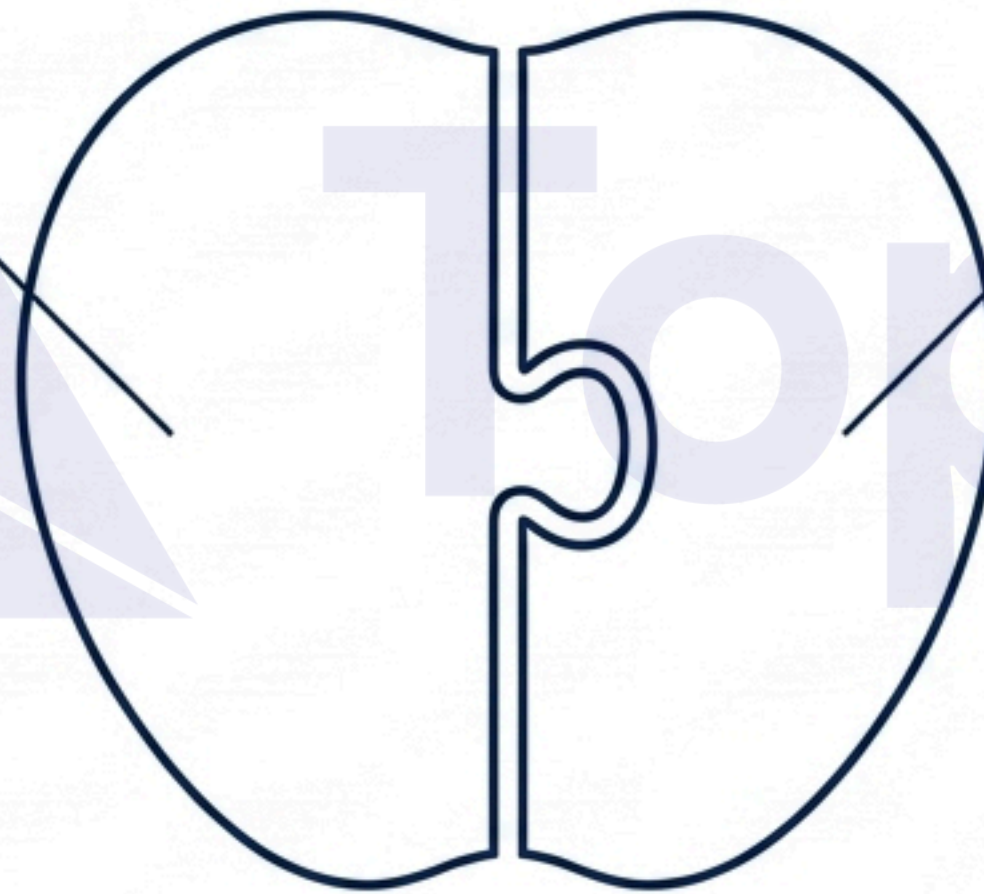
The Origin of the Fruit



Core Architecture: Pericarp & Seeds

[PERICARP]

The fruit wall. Depending on the species and environmental adaptations, the pericarp manifests as either distinctly dry or prominently fleshy.



[SEED(S)]

The reproductive core containing the embryo, developed from the fertilized ovule.



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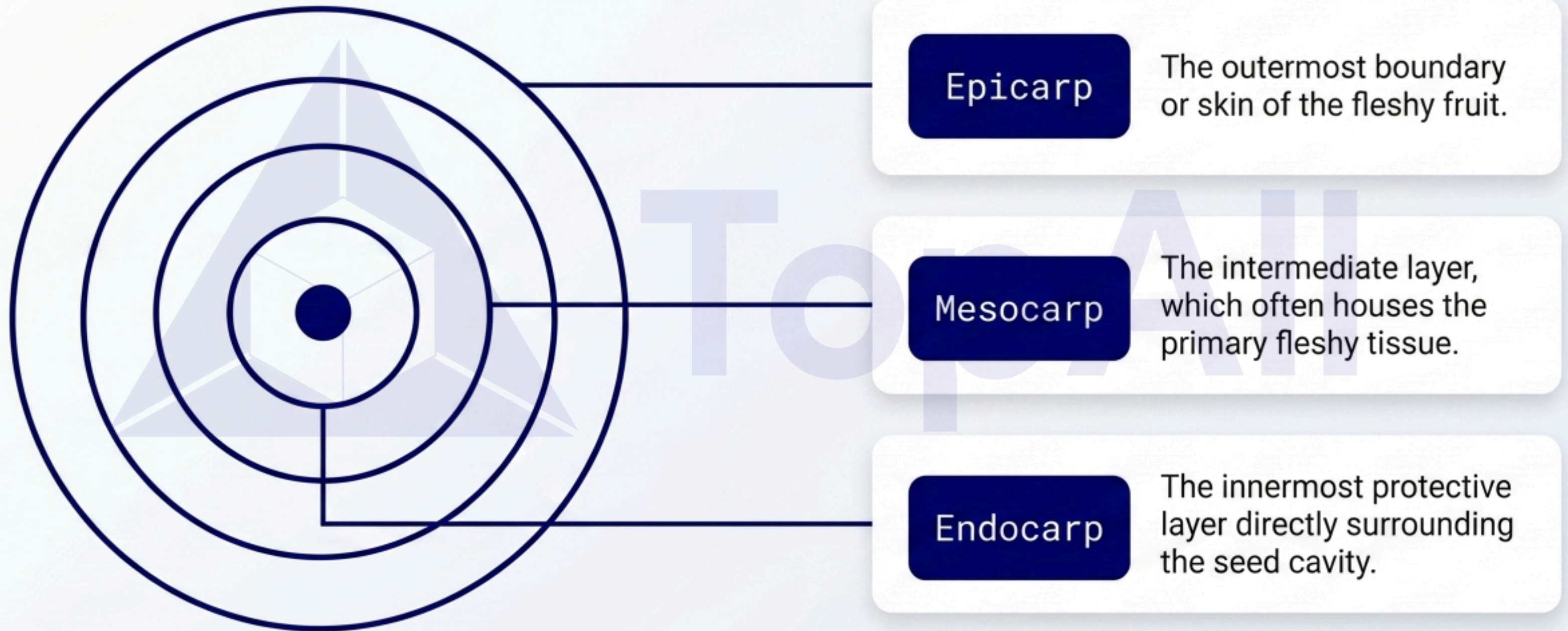
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Layers of the Fleshy Pericarp



The Drupe: A Specialized Classification

Botanical Origin

Develops strictly from a monocarpellary superior ovary.

Seed Count

Characteristically one-seeded.

Pericarp Differentiation

Highly differentiated layers (Epicarp, Mesocarp, Endocarp).

Examples: Mango & Coconut

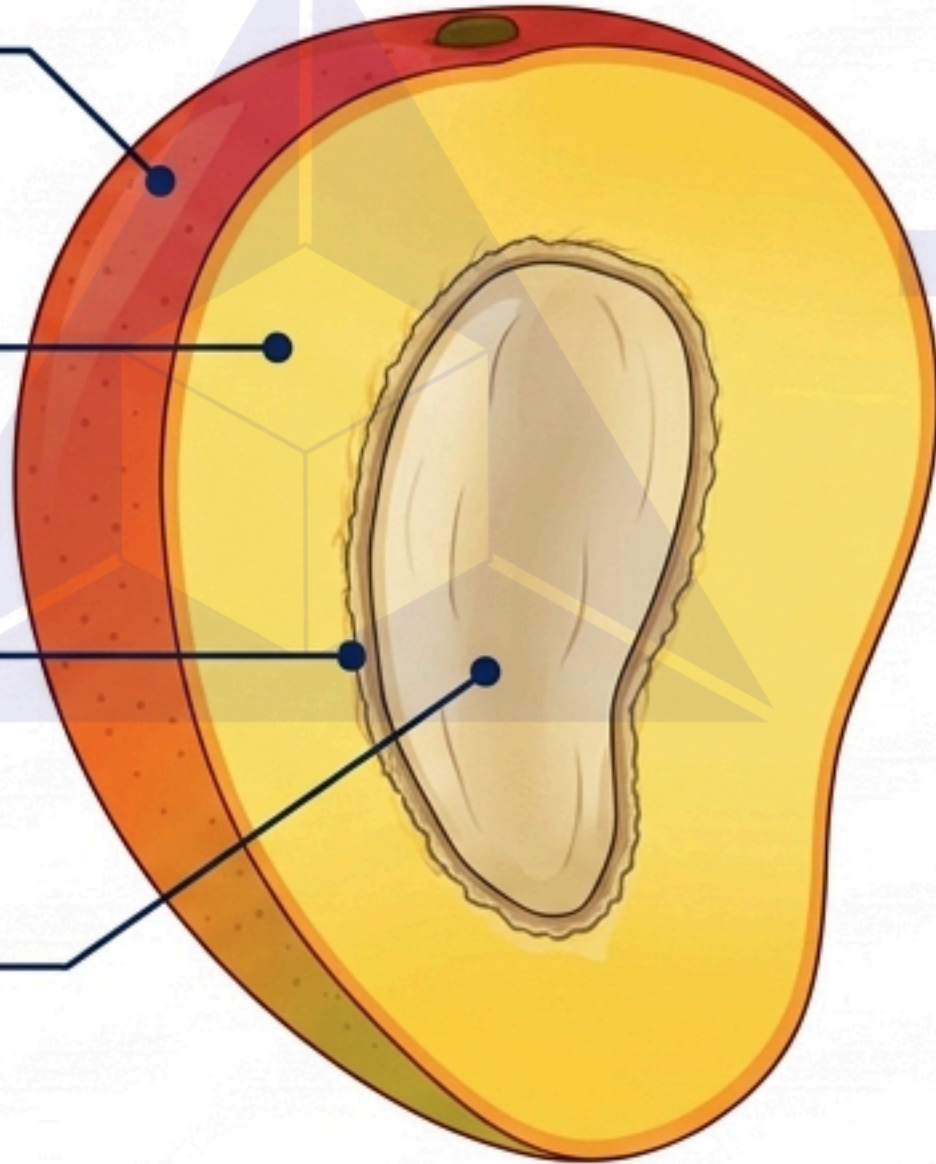
Anatomical Cross-Section: Mango & Coconut

[EPICARP]:
Outer thin
layer.

[MESOCARP]:
Middle fleshy,
edible layer.

[ENDOCARP]:
Inner stony
hard layer.

[SEED]:
Core.

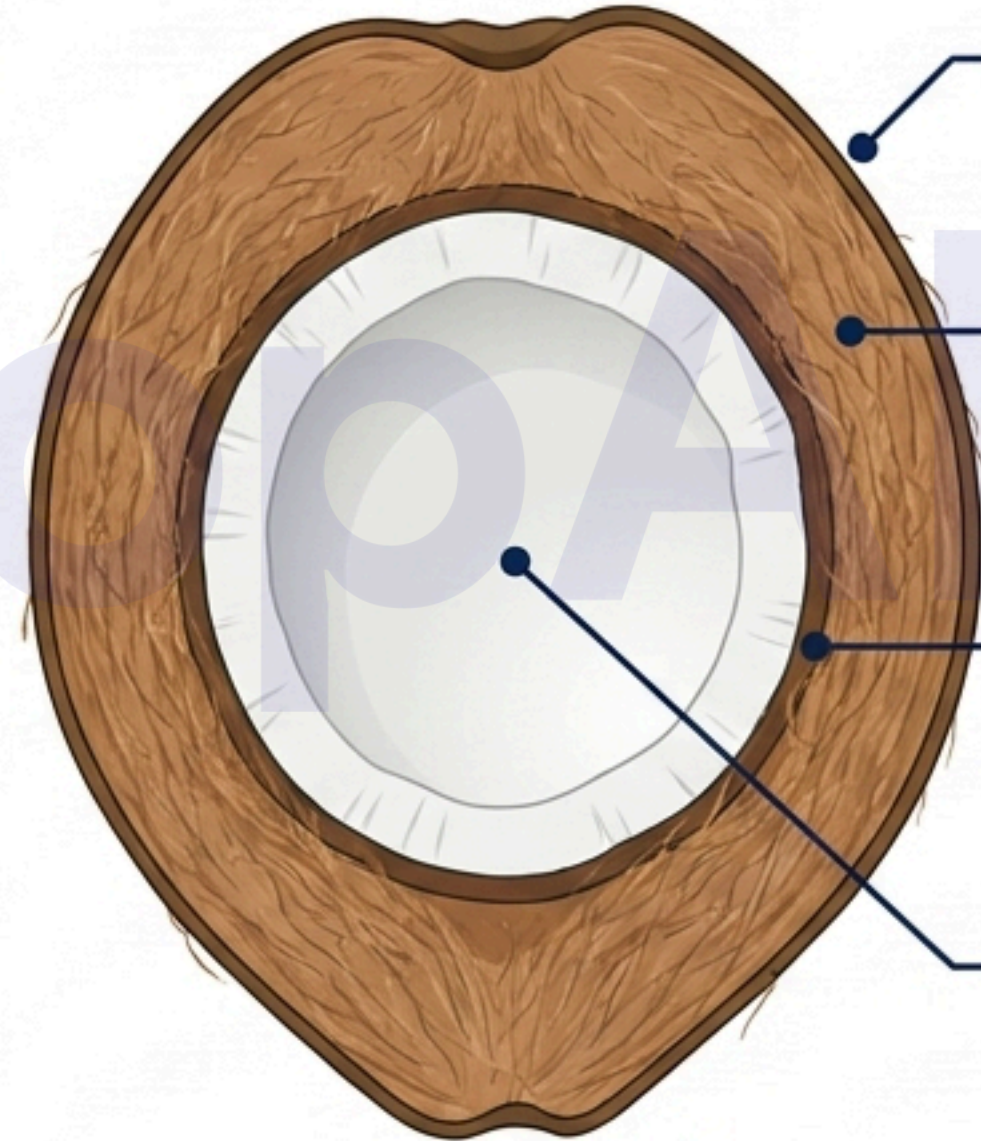


[EPICARP]:
Outer skin.

[MESOCARP]:
Fibrous husk
layer.

[ENDOCARP]:
Hard stony
shell.

[SEED]:
Inner core.



Morphological Comparison: Drupe Variations

	Mango	Coconut
Origin	Monocarpellary superior ovary	Monocarpellary superior ovary
Endocarp & Seed	One seed enclosed in a stony hard endocarp	One seed enclosed in a stony hard endocarp
Mesocarp	Fleshy and edible	Fibrous

Despite distinct visual and textural differences—a soft, sweet mango versus a hard, fibrous coconut—both utilize the identical biological blueprint of a drupe to achieve their evolutionary purpose.



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