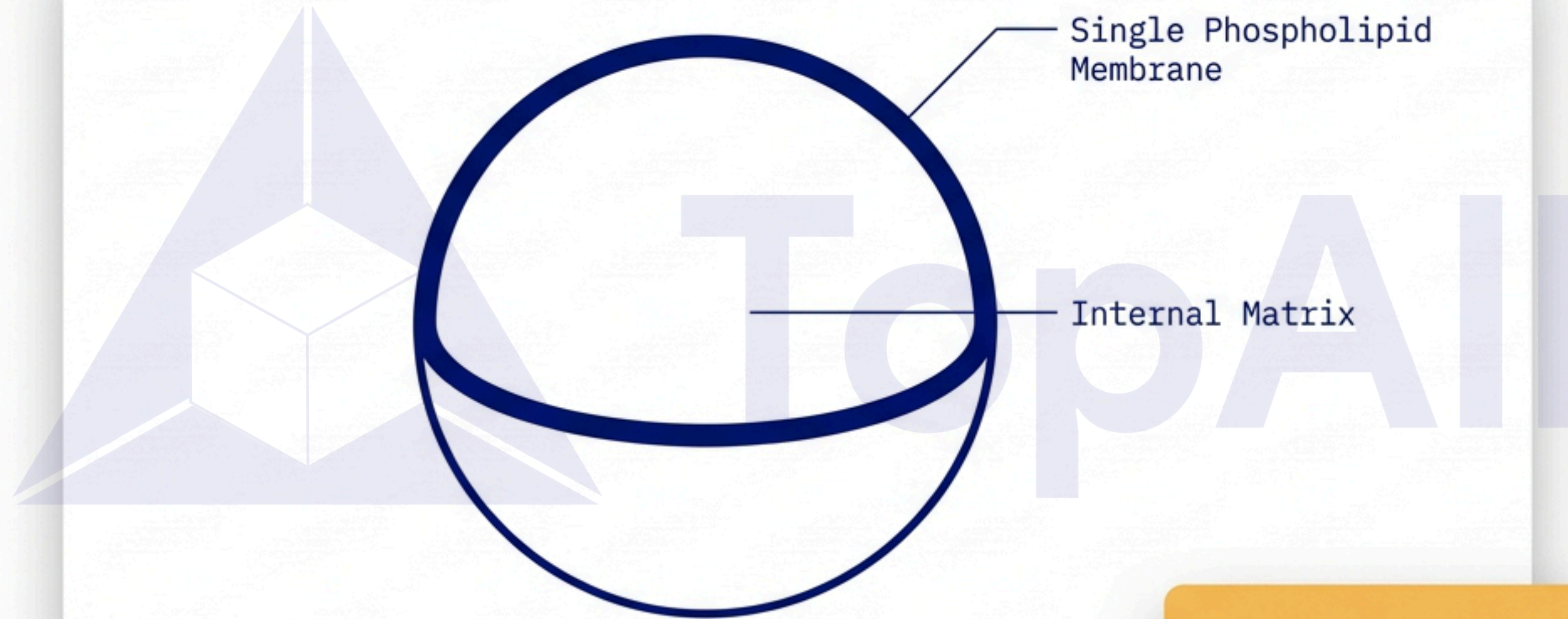


Tiny Enzyme Vesicles

Anatomical and functional overview of microbodies.



Membrane-Bound Minute Vesicles



Note on Scale: Microbodies are "minute" – significantly smaller than major organelles like the nucleus or mitochondria.



**You've Learned the Theory.
Let's Test Them Now.**

$$E=mc^2$$



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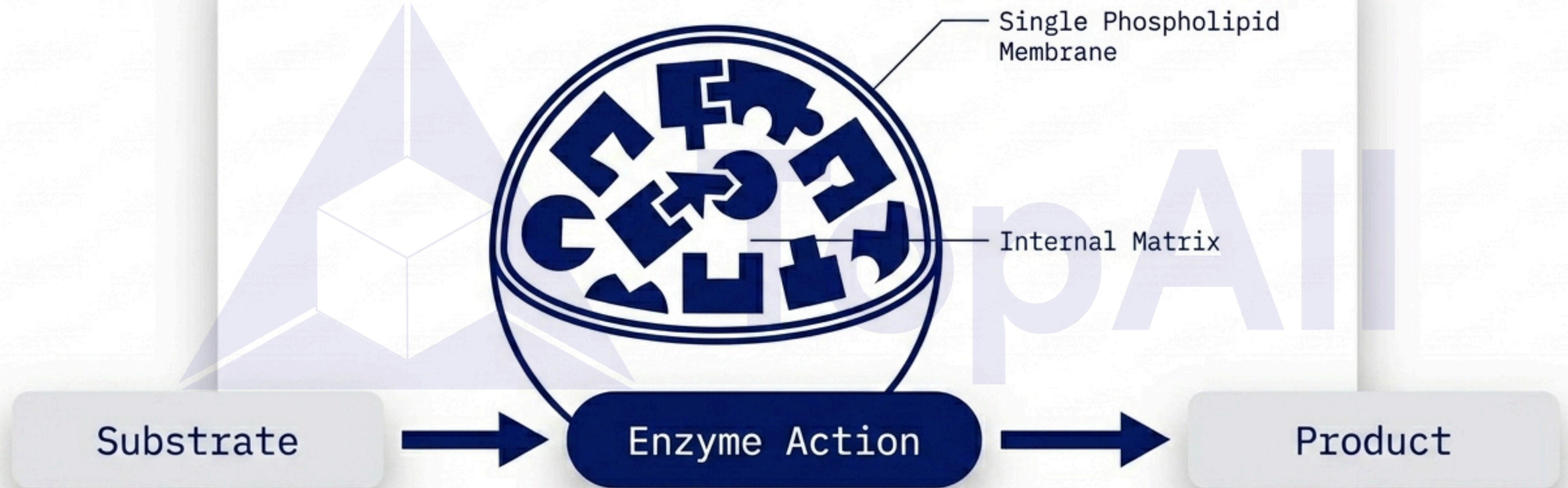
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Key Highlights

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Enzymes Inside Microbodies

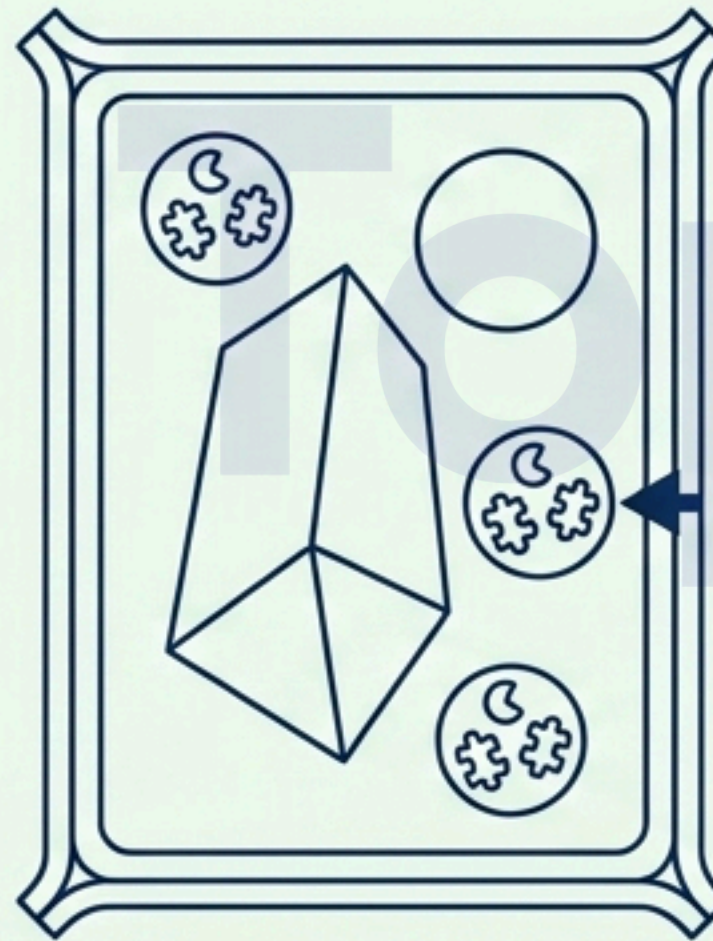


Warning: Compartmentalization is crucial. Without this membrane boundary, these active enzymes could freely digest the cell's own cytoplasm.

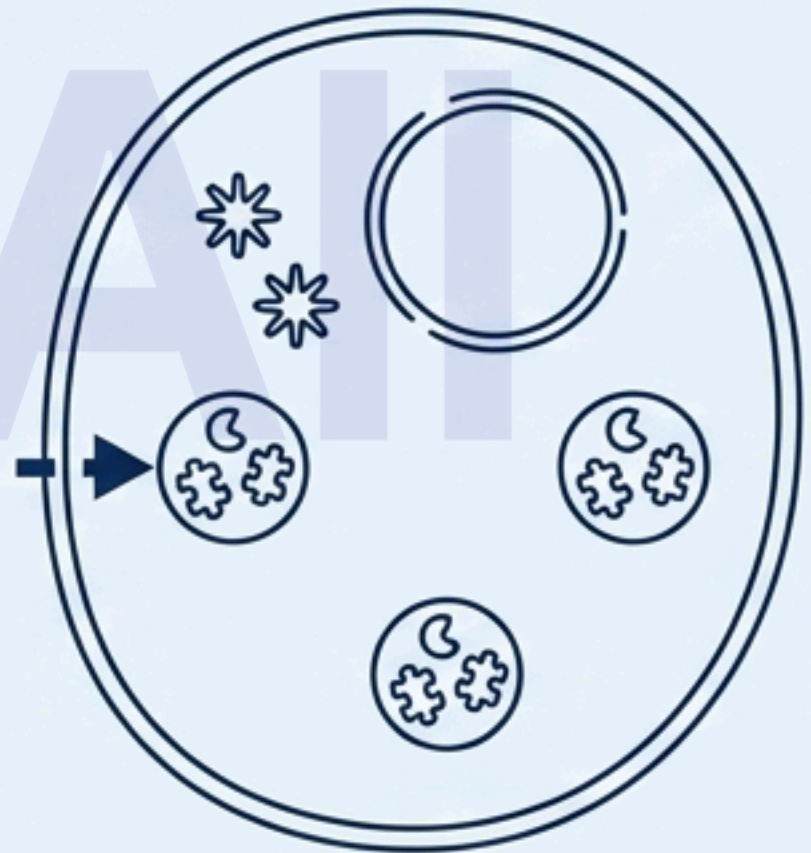
Present in Plant and Animal Cells

Unlike plastids (exclusive to plants) or centrioles (exclusive to animals), microbodies are universal features of eukaryotic cell organization.

Plant Eukaryote

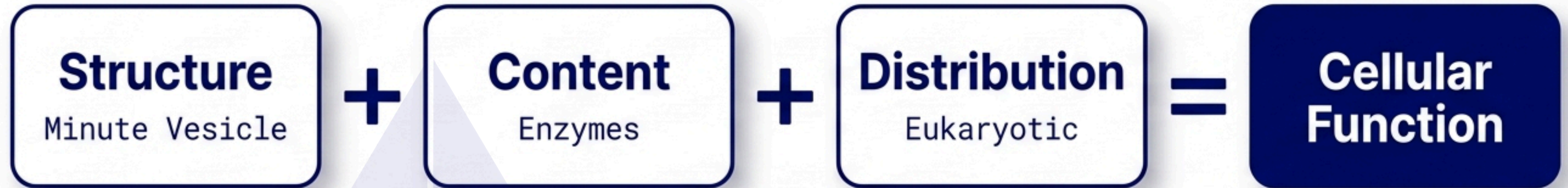


Animal Eukaryote



The Microbody Framework

Synthesis Complete



Key Takeaway: Microbodies are minute, membrane-bound enzyme carriers essential to the metabolic operations of both plant and animal cells.



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