

EXPEDIENTE 81.128

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Figure 1

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1. *Chlorophyll a* (Chl a) is the primary photosynthetic pigment in most plants and algae. It is a green pigment that absorbs light energy in the blue and red regions of the visible spectrum.

2. *Chlorophyll b* (Chl b) is an accessory pigment that absorbs light energy in the blue and red regions of the visible spectrum. It transfers the absorbed energy to Chl a for use in photosynthesis.

3. *Carotenoids* are accessory pigments that absorb light energy in the blue and green regions of the visible spectrum. They transfer the absorbed energy to Chl a and Chl b for use in photosynthesis.

4. *Xanthophylls* are a group of carotenoids that absorb light energy in the blue and green regions of the visible spectrum. They transfer the absorbed energy to Chl a and Chl b for use in photosynthesis.

5. *Lutein* is a xanthophyll that absorbs light energy in the blue and green regions of the visible spectrum. It transfers the absorbed energy to Chl a and Chl b for use in photosynthesis.

6. *Violaxanthin* is a xanthophyll that absorbs light energy in the blue and green regions of the visible spectrum. It transfers the absorbed energy to Chl a and Chl b for use in photosynthesis.

7. *Zeaxanthin* is a xanthophyll that absorbs light energy in the blue and green regions of the visible spectrum. It transfers the absorbed energy to Chl a and Chl b for use in photosynthesis.

8. *Antheraxanthin* is a xanthophyll that absorbs light energy in the blue and green regions of the visible spectrum. It transfers the absorbed energy to Chl a and Chl b for use in photosynthesis.

9. *Peridinin* is a carotenoid that absorbs light energy in the blue and green regions of the visible spectrum. It transfers the absorbed energy to Chl a and Chl b for use in photosynthesis.

10. *Diadinoxanthin* is a carotenoid that absorbs light energy in the blue and green regions of the visible spectrum. It transfers the absorbed energy to Chl a and Chl b for use in photosynthesis.

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1. *Chlorophyll a* (Chl a) content was determined using a spectrophotometer (Shimadzu UV-1601) at 663 nm. The concentration of Chl a was calculated using the following equation: $\text{Chl a (mg/L)} = 12.7 \times \text{OD}_{663}$.

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Figure 1

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ST. PAUL, N. J.

Revis. No.

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