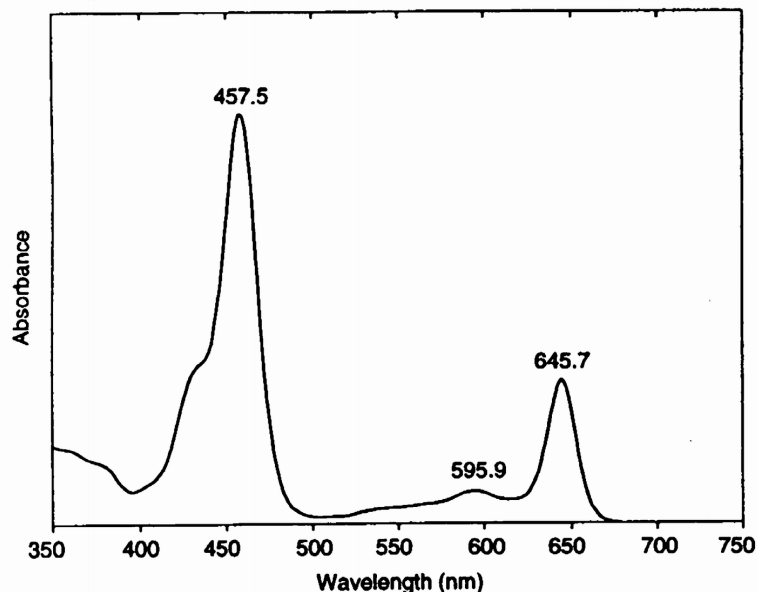


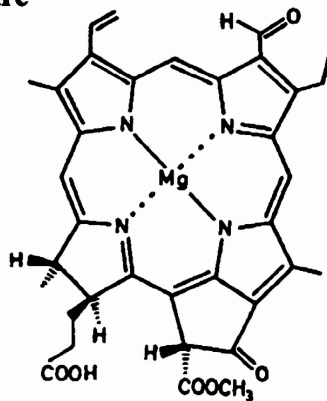
Chlorophyllide *b*

HPLC peak 1

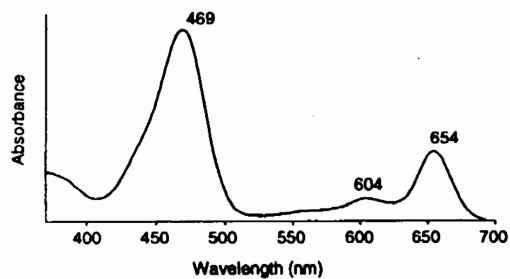
Standard spectrum in reference solvent: acetone (100%)



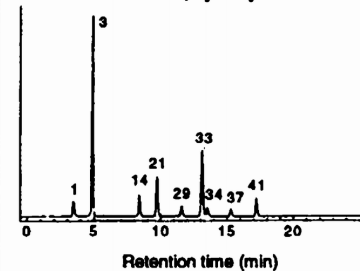
Molecular structure



Diode array spectrum in SCOR eluant



HPLC: Chlorophyllide *b*, peak 1 *Dunaliella tertiolecta*, hydrolysed extract



Chlorophyllide *b*

Property

Data

| | | |
|---|----------------------|---|
| Name: | (Trivial) (IUPAC) | Chlorophyllide <i>b</i> Trivial name sufficient; see Hynninen (1991) |
| SCOR abbreviation: | | Chlide <i>b</i> |
| Occurrence: | | Senescent tissue, zooplankton faecal pellets |
| Colour: | | Olive green |
| Molecular formula: | | C ₃₅ H ₃₂ N ₄ O ₆ Mg |
| Molecular weight: | | 628.97 |
| Specific extinction coefficient: α (l g ⁻¹ cm ⁻¹) | | 74.07 (at 645 nm in 90% acetone) Lorenzen & Jeffrey (1980) |
| Molar extinction coefficient: ϵ (l mol ⁻¹ cm ⁻¹) | | 46.6 x 10 ³ (at 645 nm in 90% acetone) Calculated from α above |

UV-vis spectra:

| Solvent | Absorbance maxima (nm) | Band ratio* | Reference |
|--------------|-------------------------|-------------|---|
| 100% Acetone | 457.5 595.9 645.7 | 2.88 | SCOR WG 78 data |
| HPLC eluant | 469 604 654 | 2.83 | SCOR WG 78: Wright <i>et al.</i> (1991) method |

Fluorescence spectra:

*Soret (blue maximum): red ratio

| Solvent | Excitation (nm) | Emission (nm) | Reference |
|--------------|------------------|----------------|-----------------|
| 100% Acetone | 454 | 652 | SCOR WG 78 data |

Alteration products:

Pheophorbide *b*

Culture from which SCOR data were obtained:

Dunaliella tertiolecta (green flagellate)

Additional reference(s):

Jeffrey & Hallegraeff (1987)