

DHI PIGMENT STANDARDS

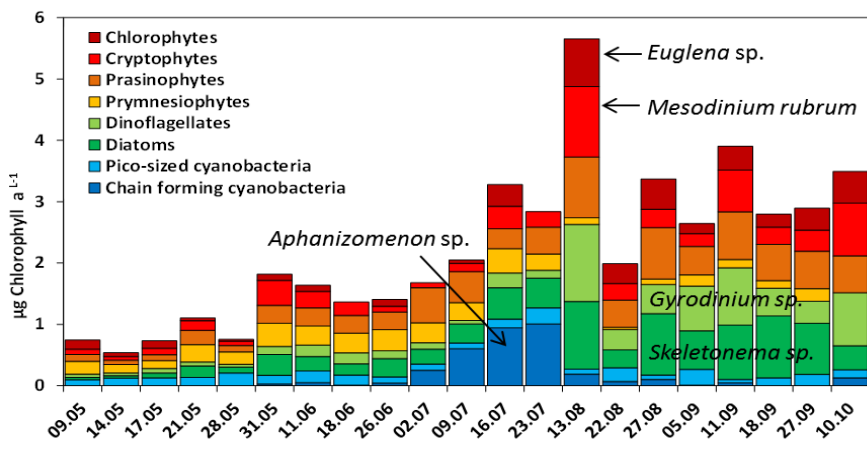
More than 45 different pure pigment standards available

DHI has more than 25 years' experience in isolating and determining the concentration of pigments. Pigment analysis by HPLC has proven very useful for determining the spatial and temporal variability of phytoplankton populations in monitoring programs and baseline studies.

EFFICIENT AQUATIC MONITORING

The precise determination of phytoplankton composition and biomass is crucial for monitoring and investigating aquatic environments. HPLC-based analysis provides an objective and efficient alternative to microscopy, allowing for rapid identification of phytoplankton groups. When combined with fast sample screening, this method can accurately identify dominant algal species, as depicted in the figure below.

This approach has proven to be cost-effective and advantageous for providing information on the chlorophyll a biomass of the individual phytoplankton classes, the phytoplankton distribution over time and space, and when identifying blooming events.



The chlorophyll a biomass of the phytoplankton groups determined weekly in the Western Baltic Sea, Denmark, by pigment analysis in combination with fast screening of the samples in the microscope. Dominating species identified by microscopy are indicated.

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BENEFITS

- Ready-to-use pigment standards in sealed vials with a nitrogen atmosphere
- Especially suited for calibration of instruments such as HPLC
- Shipped in dry ice all over the world
- Delivered with a Certificate-of-Analysis



FEATURES

- Spectrally and chromatographically pure
- Derived from plants and phytoplankton
- Chloro-pigments in 90% acetone
- Carotenoids in 100% acetone or ethanol
- The concentration ranges between 0.6 and 1.5 mg L⁻¹ in a volume of 2.5 mL



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