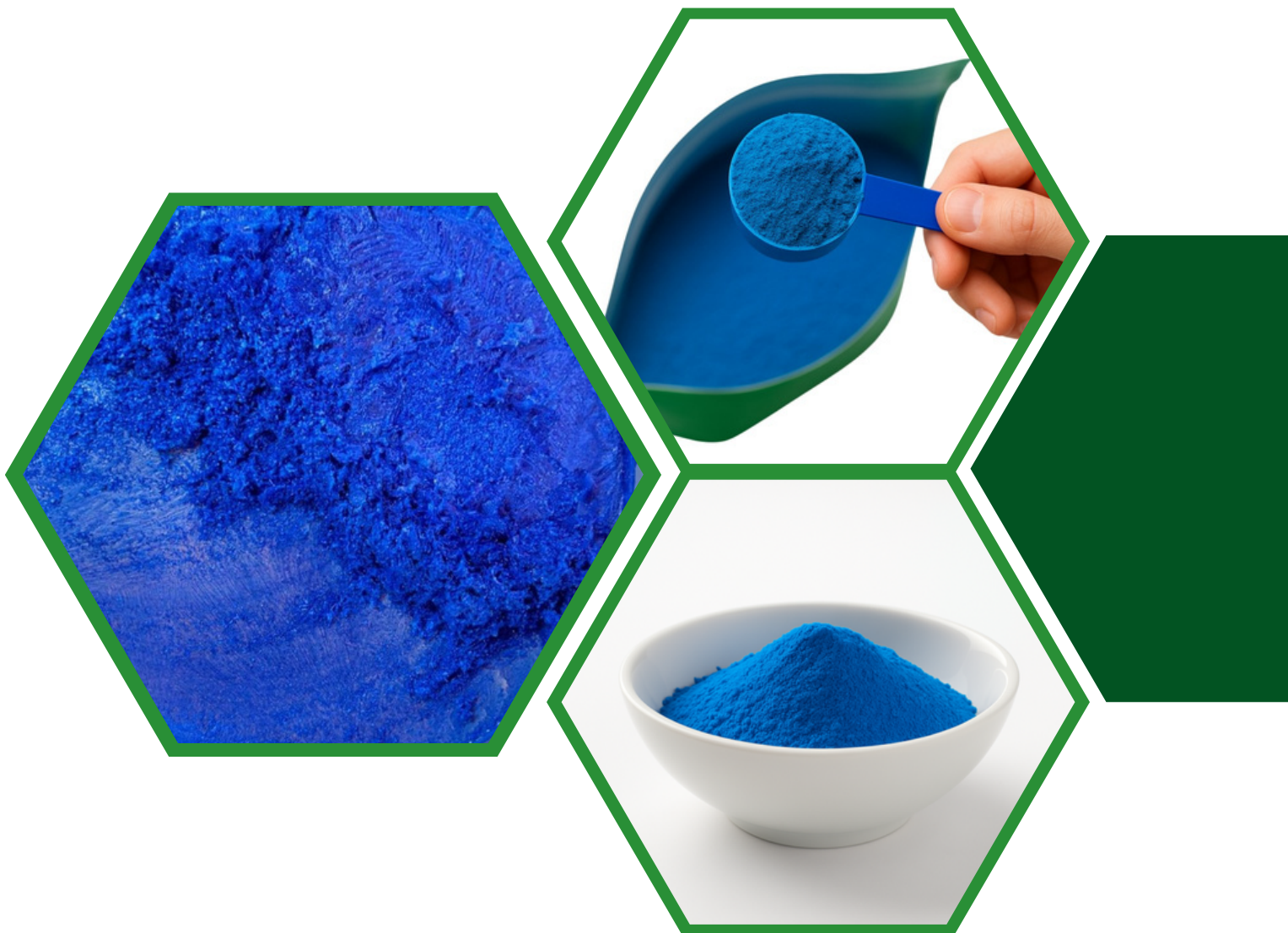


Phycocyanin

Technical Data Sheet





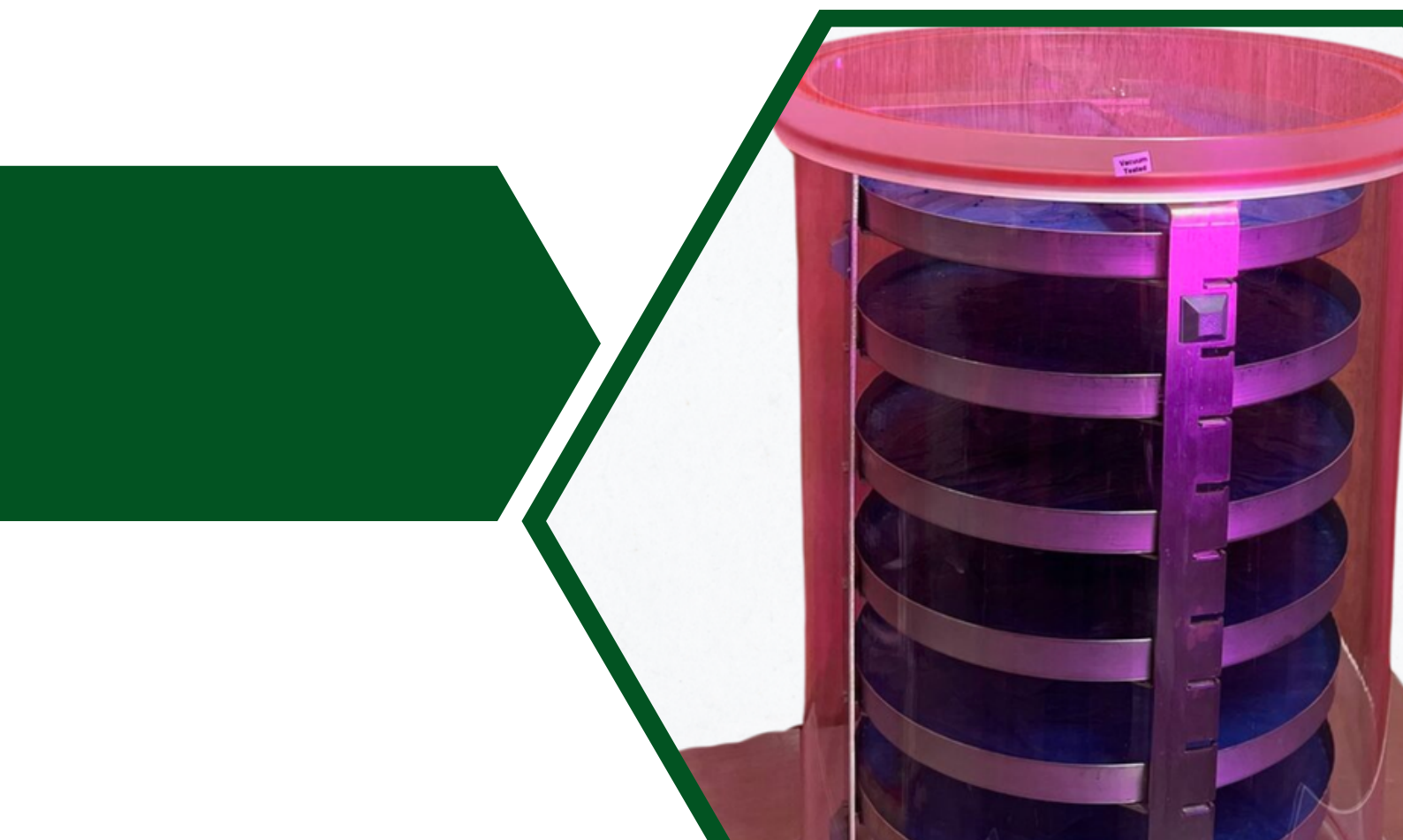
Product Description

Phycocyanin is a vibrant, natural blue pigment derived from select species of cyanobacteria and red algae, most notably *Arthrospira platensis* (Spirulina). This striking pigment imparts a deep, captivating blue hue that not only appeals visually but also signifies a wealth of nutritional and functional properties.

Beyond its brilliant color, Phycocyanin is a powerhouse of health-supporting compounds. Rich in potent antioxidants, it plays a critical role in neutralizing free radicals, thereby supporting cellular health and overall well-being. Extensive research highlights its anti-inflammatory effects, immune-modulating capabilities, and hepatoprotective (liver-supporting) potential. It also contains essential amino acids, which contribute to its strong antioxidant activity and nutritional profile.

Phycocyanin's unique qualities have positioned it as a valuable ingredient across multiple industries. In the natural food and beverage sector, it is prized for its ability to deliver vivid blue and green tones in clean-label formulations. Its utility extends into biotechnology, cosmetics, and pharmaceuticals, where its therapeutic promise continues to be explored in the development of innovative health solutions.

With its compelling blend of natural origin, functional benefits, and visual appeal, Phycocyanin is more than just a pigment—it is a symbol of nature's brilliance and potential for well-being.





Product Use Case & Handling Notes

This phycocyanin sample is water soluble and suitable for use as a natural blue colourant in a range of food and beverage formulations, including systems where the colourant is dispersed or dissolved in water-containing matrices.

A typical dilution rate is 0.05–0.5 g/L, producing a standard blue colour. The dosage can be adjusted depending on the desired colour intensity, formulation, and end application.

For optimal stability and performance, a pH above 4 is recommended, and the product should not be exposed to sustained high temperatures.

The powder should be stored in a cool, dry place, protected from heat and moisture.

Use outside these conditions may be possible depending on formulation, processing, and storage parameters. Customers are encouraged to contact us to discuss suitability for specific use cases, or for any other technical questions.





Basic Information

Product	Phycocyanin (The dried pigment extracted from <i>Arthrospira platensis</i>)
Product Code	PC16-164B
Product Brand	Algae Products International
Composition	100% Phycocyanin
Grade	Food grade
Appearance	Normally dark blue, due to crop fluctuations there could be colour variation from lot to lot.
Odour and Taste	No odour or taste
Solubility	Soluble in water
Purity	2.5 and greater (620:280 ratio)
Manufacturer	Algae Products International Limited Vale Refinery, Ynyspenllwch Road Swansea SA6 5QR United Kingdom
Origin Country	United Kingdom
CAS No.	11016-15-2
HS Code	1302199099



Supplier Details

Supplier Name	Algae Products International Limited
Address	Vale Refinery, Ynyspenllwch Road Swansea SA6 5QR United Kingdom
Telephone Number	+44 (0)1792 000 001
Email	sales@algae-products.com
Website	www.algae-products.com

Site of Manufacture

Supplier Name	Algae Products International Limited
Address	Vale Refinery, Ynyspenllwch Road Swansea SA6 5QR United Kingdom
Telephone Number	+44 (0)1792 000 001
Email	sales@algae-products.com
Website	www.algae-products.com



Third Party Certification

Standard	Certifying Body	Date of Registration
ISO 9001:2015	Citation ISO certification	Annually
ISO14002:2015	Citation ISO certification	Annually

Contact Details

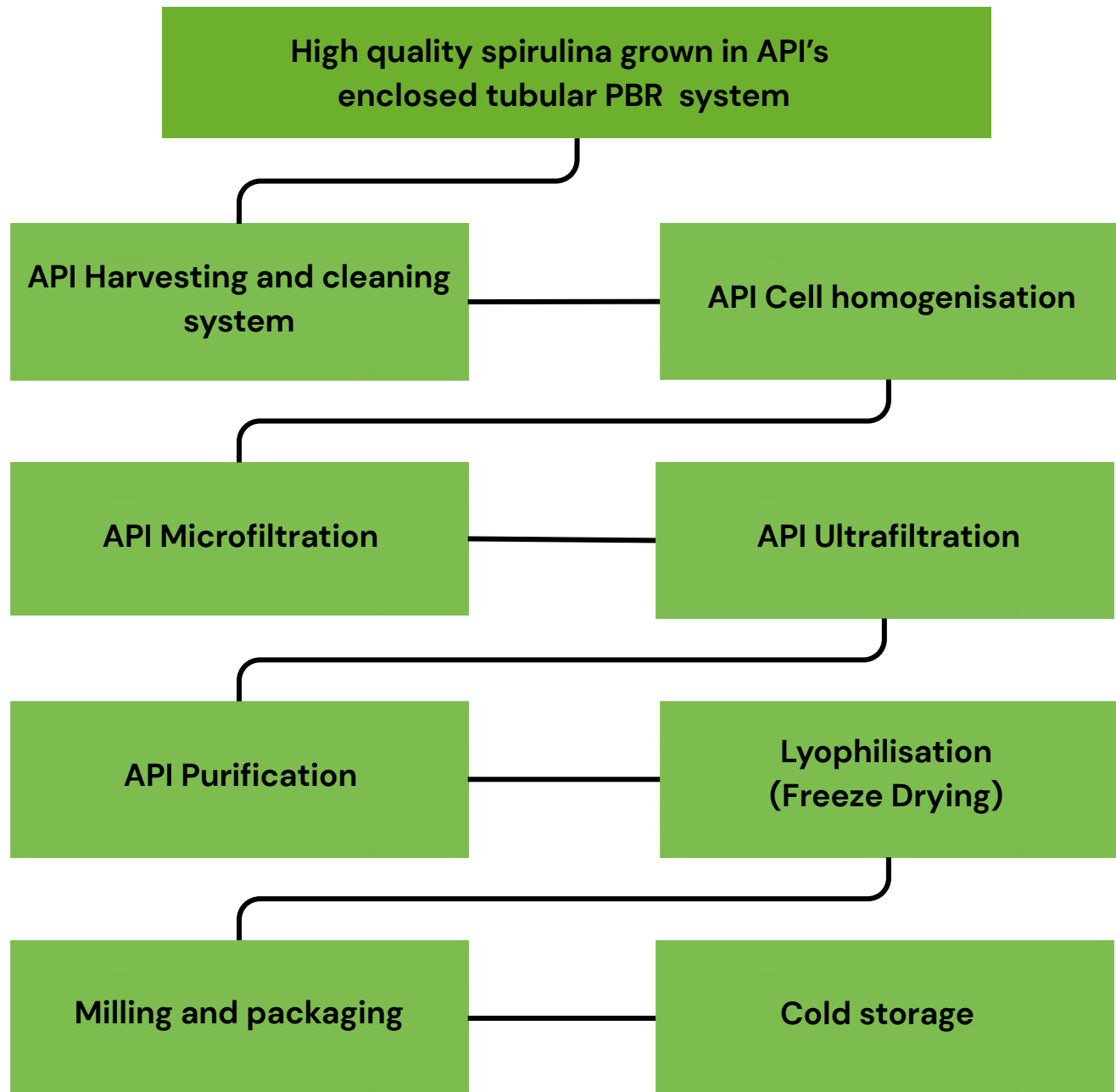
	Name	E-Mail
Technical	Jack Wade	jack@algae-products.com
Sales	Ferhan Rasul	ferhan@algae-products.com
Quality	Adnan	adnan@algae-products.com

Material Composition

Component	Percentage present	Function	Source	Country of origin
Spirulina Concentrate	100%	Raw Material	<i>Arthrospira platensis</i>	United Kingdom



Processing Information





Shelf Life and Storage Conditions

Storage temperature	5°C to 20°C
Storage conditions	Store in a cool, dry place, away from direct sunlight and moisture
Shelf life	2 years from manufacturing date under recommended storage

Additional Information

This Technical Data Sheet (TDS) has been prepared and issued by Algae Products International Ltd to provide detailed information about the product Phycocyanin – PC16-164B. The data presented herein is based on analytical results, internal specifications, and best practices as observed under controlled production and testing environments.

- All product batches are manufactured under strict hygienic conditions and subjected to rigorous quality control procedures.
- This product is traceable through its batch number and production date, ensuring complete transparency and compliance with food safety standards.
- Algae Products International is committed to continuous product improvement and adheres to relevant international food safety regulations and guidelines.
- For technical support, custom documentation, or regulatory assistance, please contact us directly at sales@algae-products.com.