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| INTERNAL USE ONLY: | Date received: |
| Internal  | Request number: |
| Request accepted: |

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| **1: Contact and project details** |
| Name: |  |
| Email: |  |
| Phone: |  |
| Postal address: |  |
| Invoice email: |  |
| Invoice address: |  |
| Project title: |  |
| Ideal start date: |  |
| Ideal completion date: |  |
| Academic (please say which funding body, NERC etc) or industrial proposal: |  |
| Do you need consultation for your needs beyond our standard package? |  |
| Project objective and brief description or experimental needs: |  |

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| **2: Algae growth facility access** |
| Algal strain required, please choose from our catalogue: <https://www.ccap.ac.uk/catalogue>\* |  |
| Growth media required (if known): <https://www.ccap.ac.uk/index.php/media-recipes/> |  |
| If you only require metabolite analysis of your own strain/samples please provide species details here and go to **section 5:** |  |

\*Please note that we may be unable to grow certain HAB, other toxin producing species or pathogens or GMOs above 1L. Please consult this list if you are unsure <http://www.marinespecies.org/hab/index.php>

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| **3: Bioreactor requirements (more information on reactor types here:** [**https://www.ccap.ac.uk/index.php/aries/**](https://www.ccap.ac.uk/index.php/aries/) |
| **Bioreactor location** | **Flask/Bioreactor sizes available****(delete as required)** | **Total volume required** | **Day:Night hours required** | **Temperature** | **3% CO2 aeration required** | **Growth measurements (delete as required)** |
|  |
| **Controlled environment shaking incubators** | 80 x 100ml20 x 250ml10 x 500ml10 x 1000ml |  |  | enter value 5°C to 40°C | n/a | OD 600nmOD 750nmCell countsDry cell weight |
|  |
| **10L carboys in controlled temperature room (20°C)** | 8 x 10 litres (carboys) |  |  | 20°C only | Yes/No | OD 600nmOD 750nmCell countsDry cell weight |
|  |
| **70L Phyco-Lift Bioreactors in controlled temperature laboratory (20°C)** | 4 x 70 litres\*(Varicon Aqua Phyco-Lift) |  |  | 20°C only | Yes/No | OD 600nmOD 750nmCell countsDry cell weight |

\* to obtain 70L we inoculate at 10%, so will need 7L starter culture from the 10L carboys, and they in turn need 1L from the flasks in the shaking incubators. Light addition only available on side LED lights (we cannot control for light coming in from lab or outside).

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| **4: Algae harvesting and storage requirements (please type “yes” to those required)** |
| **Bioreactor type** | **Membrane harvest** | **Centrifuge (standard 2000g at 20°C)** | **Wet paste cold storage (5°C)** | **Freeze dried (20°C storage)** | **Oven dried (80°C)** |
| Controlled environment shaking incubators | n/a |  |  |  |  |
| 10L carboys in controlled temperature room (20°C) |  |  |  |  |  |
| 70L Phyco-Lift Bioreactors in controlled temperature laboratory (20°C) |  |  |  |  |  |
| Do you require special temperature-controlled delivery of algal sample to you? | Yes/No |

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| **5: Metabolite analysis** |
|  |  | Please type “**yes**” to all that apply | Estimated number of samples required for each analysis type |
| **Pigment** | Chlorophyll a, Chlorophyll b, a/b ratio, total Chlorophyll, total carotenoid (spectrometry, non-HPLC) |  |  |
| **Pigment** | Water soluble phycobiliproteins |  |  |
| **Pigment**  | HPLC-PDAD C18 or C8 column separation for chlorophyll/xanthophyll/carotene analysis |  |  |
| **Lipids** | Total FAMES (GC-MS) |  |  |
| **Lipids** | Individual FAMES, e.g. EPA, DHA (GC-MS) |  |  |
| **Protein** | Total soluble protein (Lowry) |  |  |
| **Carbohydrates** | Total sugars (DuBois)Monosaccharide analysis (HPAEC-PAD) |  |  |
| **Total soluble metabolome**  | MSTFA derivatised metabolites (GC-MS) |  |  |
| If you have other special metabolite analysis request, please describe here: |  |
| Metabolites can be expressed as either raw values, per unit dry cell weight, per cell, per unit OD or per mL/L culture. If you have a preference on units please describe here: |  |

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| **6: DNA extraction\*** |
|  |  | Please type “**yes**” to all that apply | Estimated number of samples required for each analysis type |
| DNA extraction for short read shotgun (meta)genome sequencing  | (e.g. Illumina, up to 2 microg of DNA) |  |  |
| DNA barcoding (18S) | 18S Universal primers |  |  |

\*please refer to our CCAP Bioinformatics Tool function <https://www.ccap.ac.uk/ccaptools/#!/>

**General Terms and Conditions are found here and full terms will be emailed once we receive the form to check feasibility of the project:** [**https://www.ccap.ac.uk/index.php/terms-and-conditions/**](https://www.ccap.ac.uk/index.php/terms-and-conditions/)