**Key Skills Portfolio Name: …………………………….**

**Week 18: Extraction of trimyristin from nutmeg**

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| Stirring with a magnetic stirrer Level of confidence (circle) 1 (low) 2 3 4 5 (high) | |
| *Insert photographs here* | ***What was difficult about the tech-nique? What advice would you give another student to carry it out correctly?*** |

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| --- | --- |
| Using a rotary evaporator Level of confidence (circle) 1 (low) 2 3 4 5 (high) | |
| *Insert photographs here.* | ***What was difficult about the tech-nique? What advice would you give another student to carry it out correctly?*** |

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| --- | --- |
| Recrystallisation Level of confidence (circle) 1 (low) 2 3 4 5 (high) | |
| *Insert photographs here.* | ***What was difficult about the tech-nique? What advice would you give another student to carry it out correctly?*** |

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| --- | --- |
| Vacuum filtration Level of confidence (circle) 1 (low) 2 3 4 5 (high) | |
| *Insert photographs here.* | ***What was difficult about the tech-nique? What advice would you give another student to carry it out correctly?*** |

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| Thin layer chromatography Level of confidence (circle) 1 (low) 2 3 4 5 (high) | |
| *Insert photographs here.* | ***What was difficult about the tech-nique? What advice would you give another student to carry it out correctly?*** |

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| --- | --- |
| Calculating Rf values Level of confidence (circle) 1 (low) 2 3 4 5 (high) | |
| *Insert photographs here.* | ***What was difficult about the tech-nique? What advice would you give another student to carry it out correctly?*** |

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| --- | --- |
| Melting point Level of confidence (circle) 1 (low) 2 3 4 5 (high) | |
| *Insert photographs here.* | ***What was difficult about the tech-nique? What advice would you give another student to carry it out correctly?*** |

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| --- | --- |
| Infra-red spectroscopy Level of confidence (circle) 1 (low) 2 3 4 5 (high) | |
| *Insert a scan or photograph of your infra-red spectrum here.* | ***What was difficult about the tech-nique? What advice would you give another student to carry it out correctly?*** |

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| --- |
| Comment on the purity of your trimyristin |
| **What does the appearance of your TLC plate tell you about the purity of your sample of trimyristin (comment on the number of spots observed)?**  **How does your melting point compare with that of pure trimyristin? What does that tell you about the purity of your sample?**  **Examine your infrared spectrum and identify which peaks correspond to functional groups present in trimyristin.** |