***Human Biology ATAR – Task 7: Validation***

***Extraction of DNA (5%)***

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| Name: | | | |
| Time allowed: 1 Lessons | | | |
| **Section** | Your Mark | Marks available | Percentage of Investigation |
| **Section 1:**  Investigation |  | 25 | 60% |
| **Section 2**:  Validation Test |  | 18 | 40% |
|  |  | **45** | **100%** |

**Declaration of Authenticity**

I (Student Name) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ declare that this work is my own and I have not plagiarised from any source.

Signature:  
  
Date:

1**.** State the aim of this investigation **(1 mark)**

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2. Given that safety glasses will be worn to prevent chemicals getting into your eyes, outline 4 other risks you need be aware of during this practical. **(4 marks)**

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| **Risk** | **How risk was mitigated** |
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|  |  |
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3. Describe the role of the soap/detergent in the buffer solution **(2 marks)**

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4.Explain why it was necessary to crush the strawberry fruit. **(2 marks)**

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5. Explain why you had to be careful not to over handle the strawberry fruit.

(**2 marks)**

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6**.** Explain the purpose of the gauze **(2 marks)**

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7**.** Describe what you observed when an equal volume of ice-cold ethanol was placed on the filtered strawberry fruit solution. **(2 marks)**

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8. State the name of the substance collected at this stage. **(2 marks)** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**END OF VALIDATION TEST**