| Date  |           |
|---|-----------|
| Expt. No. O2 Page No                                  | 08        |
|   |           |
| Aim:  |           |
|   |           |
| Extraction of starch from potato.                     |           |
| Reference:-   |           |
|   |           |
| Kokate C. K. Purchit A.P. , Grokhale S.B., Nivali pub | lication, |
| 56th edition, Page no 8.36 - 8.39.                    |           |
|   |           |
| Requisement:  |           |
|   |           |
| Glassware: Beaker                                     |           |
| · Criass rod  |           |
| · Skparating funnel<br>· Watch glass.                 |           |
| NUTCH GIBS.   |           |
| Material: - Fresh potatoes                            |           |
| ·Knife  |           |
| · Mostar and pestle                                   |           |
| · Filter paper  |           |
| · tripod  |           |
| · Grainder  |           |
| · Sieve (different mesh size)                         |           |
|   |           |
|   |           |
|   |           |
|   |           |
|   |           |
| Teacher's Signature                                   |           |

|   | Date              |
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| Expt. No  | Page No. 03       |
|   |                   |
|   |                   |
| Theogy:   |                   |
| Starch is an important believescharide found in   | blant sources.    |
| Starch is an important polysaccharide found in The microscopic appearance of starch is in the | form of           |
| granules. It is typical for the individual star   |                   |
| They differ in size depending on the source   | from which        |
| they isolated. Starch is insoluble in water or  | nd rapidly        |
| settles at the bottom and can be collected  |                   |
| decanting the supernatant.  |                   |
|   | 1 / /             |
| The starch molecules comprise a large num   | ber of guasse     |
| are produced by all vegetables and other  | blant sources     |
| through the process of photosynthesis.  | 7197              |
|   |                   |
| The starch molecules function as energy sto   | rage in plant     |
| cells, which is necessary for their growth,   | development,      |
| and reproduction. Barley, potatoes, maize, &  | rice, wheat       |
| are a few examples of plant products from   |                   |
| are extracted and distributed to different  | industries.       |
| Procedure:  |                   |
| 1000000   |                   |
| · Take required amount of potatoes and p  | eel off the       |
| · Take required amount of potatoes and pouter layer of potatoes.                              |                   |
|   |                   |
|   |                   |
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| Teacher's Signature   | The second second |

|      |   | Date                                |
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| Expt | t. No   | Page No. 10                         |
|      |   |                                     |
| •    | The fresh potatoes cut into small pieces and into a grinder and stir for 1 to 2 minutes.                                  | place them                          |
|      | The goinding process is repeated for 3 to we get a homogenous suspension.   |                                     |
| •    | Transfer the slurry, into a beaker and for few minutes and then noting the depositionly - slowly at the bottom of beaker. | allow standing ition of starch      |
| •    | Pour the supernatant fluid and fill the hater containing starch in it, stir well allow to settle down the starch.         | beaker with<br>and again            |
| •    | Repeat 4 to 5 times by separating starch thoroughly. Collect the white deposited star watch glass.                        | that can washed that can washed the |
|      | Day it in a oven or direct sunlight then we sample.   | igh the                             |
|      | Result:   |                                     |
|      | The experiment "Extraction of starch from successfully performed in laboratory (Pho                                       |                                     |
|      | And the amount of sample (starch) =   |                                     |
|      | Teacher's Signature _   |                                     |