|  |  |  |  |
| --- | --- | --- | --- |
| **Ingredients** | **Quantity in mg for 1 tablet** | **Functional Category** | **Quantity in mg for 10 tablets** |
| Paracetamol | 325 | Antipyretic | 3250 |
| Lactose | 39 | Diluent | 390 |
| Starch (5%) | 20 | Disintegrant & Binder | 200 |
| Magnesium stearate(2%) | 8 | Lubricant | 80 |
| Talc (2%) |  | Glidant | 80 |
| Purified Water | Q.S for granulation | Granulating agent | Q.S |

**Formulation of Paracetamol Tablets**

**Formulation of Paracetamol tablet by granulation wet method.**

**Aim:**

To prepare each and submit 10 paracetamol tablets each containing 325 mg of paracetamol by wet granulation method.

**Requirements:**

Paracetamol, starch, water, Lactose, Talk, Magnesium Stereate.

**Apparatus:**

Mortor and pestle, Hot air oven, weighing balance, siever, tablet punching machine.

**Theory:**

Wet granulation is Used is the most widely and This general method is used in preparation of tablets This method is Popular because the granulation meet all the qualities required for good tablet but has the disadvantage that materials. Which are destroyed moisture (or) excessive heat cannot be wet granulation.

More over this method is time consuming and requires number of persons as many are involved in the preparation.

wet granulations forms the granules by binding the powders together with an adhesive instead. of by compaction.

**Pprinciple:**

paracetamol is sparingly soluble and widely analgesic and antipyretic paracetamol can be manufactured in and Various dosage forms. As tablets are Very convenient to Use and the dose of paracetamol is 325mg so in this experiment paracetamol prepared by wet granulation method to get uniformity of powder mixture.

**Procedure:**

For 10 tablets, Each tablet containing 325mg of Paracetamol,

Paracetamol tablets are prepared by wet granulation method.

According to working formula, accurate quantities of paracetamol, lactose, and half quantity of starch was taken in a motar and damp was prepared using water as granulating fluid.

The damp mass Was passed through a sieve 10 and the wet granules were dried in oven at 60 degree for about 30 mins and then they are passed through Sieve -18.

To this remaining "half quantity of starch 2% each of magnesium stearate and talc were added uniformly mixed From this final mixture, 100rng was taken and compressed to tablet using a mm punch size rotary tablet punching machine.

**Report:**