

**Exp. No.-19****Date:****Aim:** To prepare and submit 10 Paracetamol Tablet.**Reference:**

- ✓ Dr. Kastur P.V., Gokhale S.B., Parakh S.R., HASAN S.A. Practical Pharmaceutics- 1, Nirali Prakashan, August 2019, 26<sup>th</sup> Edition. Mumbai; 9.11
- ✓ Indian Pharmacopoeia.

**Requirements:****Apparatus Required:**

Mortar and pestle, beaker, sieve No 10, tablet punching machine, hot air oven

**Chemical Required:**

Paracetamol, lactose, dry starch, magnesium stearate, talc.

**Principle:**

Paracetamol has analgesic and antipyretic properties but it has no useful anti-inflammatory properties. Paracetamol is readily absorbed from the gastrointestinal tract. Paracetamol is categorized under BCS classification ii tablets are solid dosage forms containing one or more drugs with or without excipients, prepared by compression. It provides greatest dose precision and least content variability. Inert materials employed in addition to active ingredients are collectively called tablet additives.

**Formula:**

Sl. No.	Ingredients	Official formula	Working formula	Required quantities
1	Paracetamol	125mg		
2	lactose	375mg		
3	Starch	48mg		
4	Talc	40mg		
5	Magnesium Stearate	12mg		
6	5% starch	Q.s.		

**Calculation:****Procedure:****The tablets were granulated using wet granulation method as follows.**

Paracetamol, lactose and half the quantity of starch were weighed and mixed thoroughly. It was granulated using 5% starch mucilage as binding agent and passed through no.10 mesh screen. The obtained granules were dried at 55°C for 1 hr. After drying, dry screening was done using no.22 mesh screen. The rest of the starch powder along with talc and magnesium stearate were added and mixed. These granules were compressed into tablets on a 16 station cad mach rotary tablet machine (12mm).

**Use:** Analgesic, antipyretic, anti-rheumatic.**Dose:** 650mg to 1000 mg every 4 hour not exceeding 4000mg per day.**Label:**

**PARACETAMOL TABLET IP**

<b>Composition:</b> Paracetamol Lactose Starch Talc Magnesium Stearate	<b>BATCH NO.:</b> <b>MFG. DATE:</b> <b>MFG. LIC NO.:</b> <b>EXPIRY DATE:</b>
<b>Category:</b> Antipyretic	
<b>FOR INTERNAL USE ONLY.</b>	
<b>Use:</b> Analgesic, antipyretic, anti- rheumatic	
<b>Storage:</b> Stored in a well closed container at a temperature not exceeding 25 <sup>0</sup> C	
<b>MFG BY:</b> ABCD	<b>Batch:</b> <b>Roll No.:</b>

**Report:**