

Pediatric paracetamol Elixir -(BP)

Aim: To prepare & dispense 50ml of pediatric paracetamol.

Requirements: Paracetamol, Ethanol, propylene glycol, chloroform spirit, invert sugar, amaranth Solution, glycerol.

Requirements: Beaker, glass rod, spatula, water, measuring cylinder.

Principle: Elixirs are clear, flavored, sweetened hydro alcoholic liquid preparations for oral administration. The Percentage of alcohol varies from 4 to 40 % in this elixirs, Paracetamol is used as antipyretic and analgesic. Propylene glycol, ethanol, and glycerol these are all acts a vehicle and co-solvent to increase the solubility of poorly soluble ingredients. Chloroform spirit acts as a preservative. Invert syrup acts a sweetening agent.

Procedure:

- Dissolve paracetamol in mixture of ethanol (96%) propylene glycol and chloroform spirit.
- The amount of alcohol is not sufficient to dissolve prescribed quantity of paracetamol, but due to combination of solvents, its solubility is enhance.
- Add rest of the ingredients with constant stirring and glycerol to produce 50ml.

LABEL:

Use: Antipyretic and analgesic.

Storage: It should be protected from light.

Alcohol contain: 10 to 12% v/v.

Report:

Observations:

S.no	Ingredients	Official quantities	Required quantities
1.	Paracetamol	24gm	
2.	Ethanol	100ml	
3.	Propylene Glycol	100ml	
4	Chloroform spirit	20ml	
5.	Invert syrup	300ml	
6.	Amaranth solution	2ml	
7.	Glycerol	1000ml	50ml

LABEL:

PARACETAMOL PEDIATRIC ELIXIR	
Name:	Age:
Sex:	Ref.no:
Date of dispensing:	
Dose: 5ml contains 125mg paracetamol	
FOR EXTERNAL USE ONLY	
Storage: stored in ambered coloured glass container.	
Prescribed by:	
Dispensed by:	
Address of pharmacy: VNIPS	