MONOLAYER PARACETAMOL (ACETAMINOPHEN) SYRUP

Patent Number: 202441094817

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DRAWBACKS IN USING CONVENTIONAL PARACETAMOL

- Tablets which are available gets restricted up to certain dosage quantity.
- On the other hand, the disintegration of the tablet takes too long time to disintegrate completely inside the stomach.
- Those are biphasic liquid dosage form (Either emulsion or suspension)
- Usually those are not prepared by active ingredient solubilization.
- Don't contain all healthy compounds
- Don’t disperse and/or disintegrate properly into the liquid medium
- Don’t dissolute within few seconds into the oral cavity.
- Large size which can create large amount of wastage
- Quality construction
- High quality ingredients
- Bitter in taste while consuming orally.
- User/consumer flexible Paracetamol (Acetaminophen) syrup.

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OBJECT OF THE INVENTION

The object of the invention is to make Paracetamol (Acetamiophen) a single-layer liquid dosage form containing Paracetamol and other required excipients. To show better efficacy compared to other existing Paracetamol suspensions. In contrast, after the formulation it was found that it can be administered through an IV channel. It also relates to conventional syrup and the improvisation of Paracetamol (Acetaminophen) syrup in both oral and parenteral routes of administration. On the other hand, the field of the work was to make it more palatable and accessible to pediatric and geriatric patients compared to the conventional method. An adequate dissolution which result loss of money during production of Paracetamol (Acetaminophen), a very less dissolution/disintegration time to dissolute/disintegrate rapidly within a short time span in few seconds , issues regarding packaging and the consumer's complications thereof.

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VARIETY OF PARACETAMOL (ACETAMIOPHEN) COMBINATIONS CAN BE MADE BY SAME FORMULATION

1. Paracetamol syrup without sweetening agent
2. Paracetamol syrup with sweetening agent

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PRODUCTION PROFIT

The cost of 100 lit Paracetamol (Acetaminophen) syrup is approx INR 20000 (Considering all the utilities). If the same formulation is sold out by INR 60 for 100 ml each bottle, the profit margin will be 200% approximately (Without Sucralose Oral Syrup)

In case of with Sucralose combination the profit margin can be reached up to 500% (Oral Syrup) to 1000%

On the other hand, the Paracetamol (Acetaminophen) formulation without Sucralose the profit margin can be reached up to 5000% (Parenteral route)



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OTHER PROFITS

- In large scale it can be profitable and economical for the veterinary sector also.
- It can be widely used as Animal Medication in different Zoological Gardens and various National Parks.
- It can be used vividly in Animal-Meat Production Sector.

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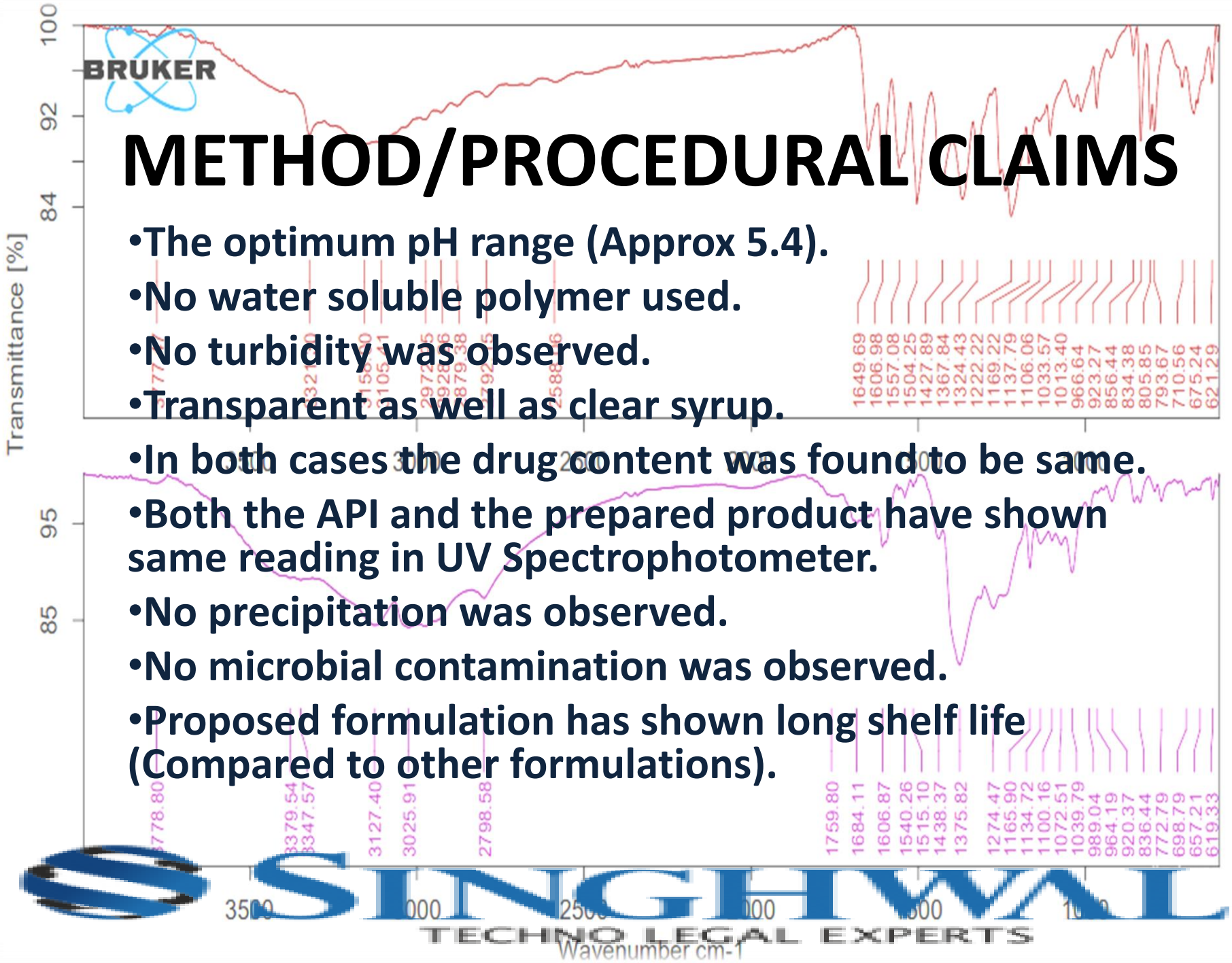

METHOD/PROCEDURAL CLAIMS

- The optimum pH range (Approx 5.4).
- No water soluble polymer used.
- No turbidity was observed.
- Transparent as well as clear syrup.
- In both cases the drug content was found to be same.
- Both the API and the prepared product have shown same reading in UV Spectrophotometer.
- No precipitation was observed.
- No microbial contamination was observed.
- Proposed formulation has shown long shelf life (Compared to other formulations).

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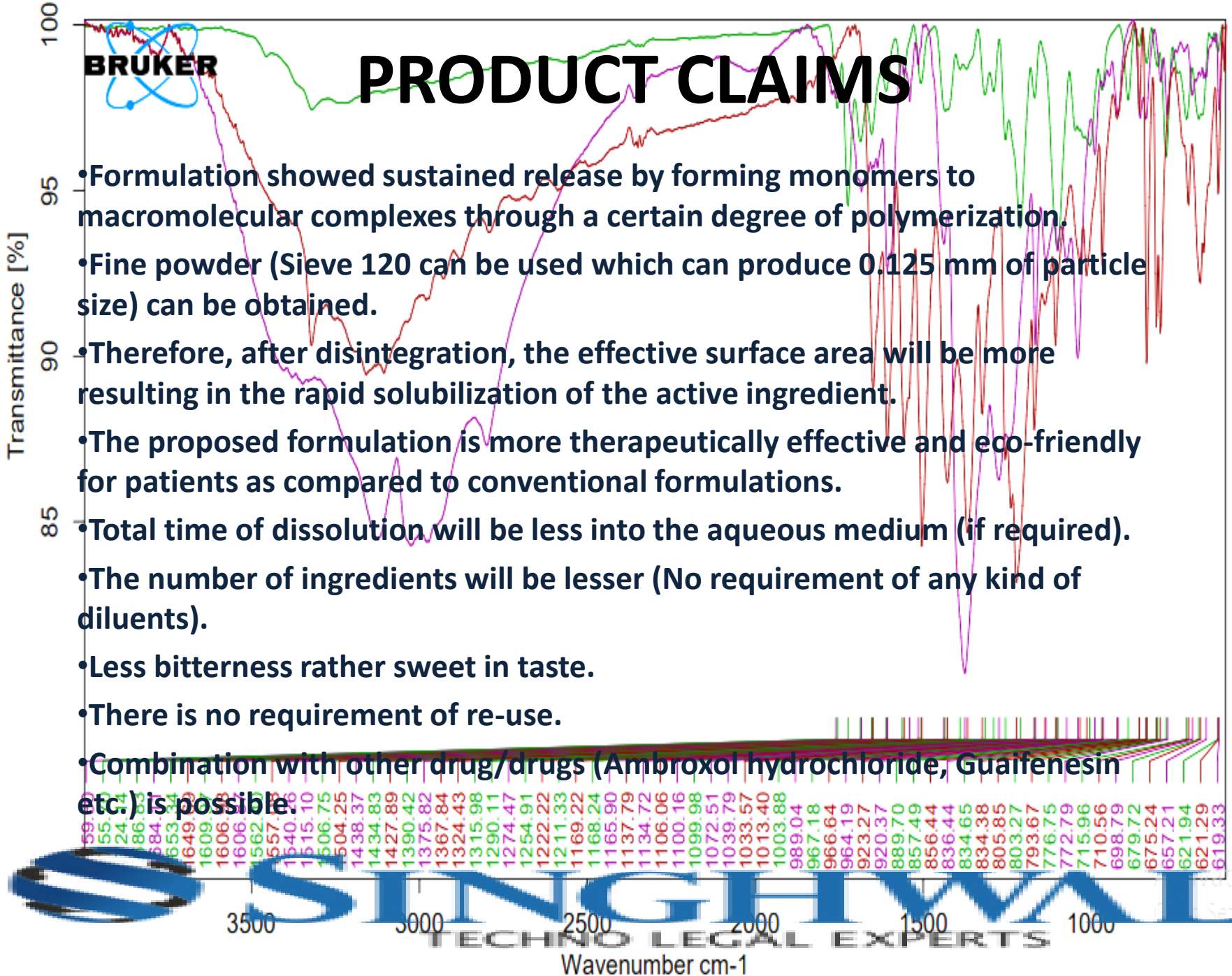
PRODUCT CLAIMS



- Formulation showed sustained release by forming monomers to macromolecular complexes through a certain degree of polymerization.
- Fine powder (Sieve 120 can be used which can produce 0.125 mm of particle size) can be obtained.
- Therefore, after disintegration, the effective surface area will be more resulting in the rapid solubilization of the active ingredient.
- The proposed formulation is more therapeutically effective and eco-friendly for patients as compared to conventional formulations.
- Total time of dissolution will be less into the aqueous medium (if required).
- The number of ingredients will be lesser (No requirement of any kind of diluents).
- Less bitterness rather sweet in taste.
- There is no requirement of re-use.
- Combination with other drug/drugs (Ambroxol hydrochloride, Guaifenesin etc.) is possible.

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FEEL FREE TO CONTACT FOR MORE DETAILS

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