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HASIL PENILAIAN SEJAWAT SEBIDANG ATAU PEER REVIEW
KARYA ILMIAH : JURNAL ILMIAH

Judul Karya Ilmiah (Artikel) : The Effect of Antioxidant in Vitamin C on the Pharmacokinetic Parameter of Paracetamol in the Male Rabbits (*Lepus Nigricollis*)

Status Pengusul : Endang Sri Sunarsih¹, Noor Wijayahadi¹, Yoga Adhi Dana², Charisa Mahda Kumala³

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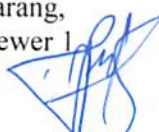
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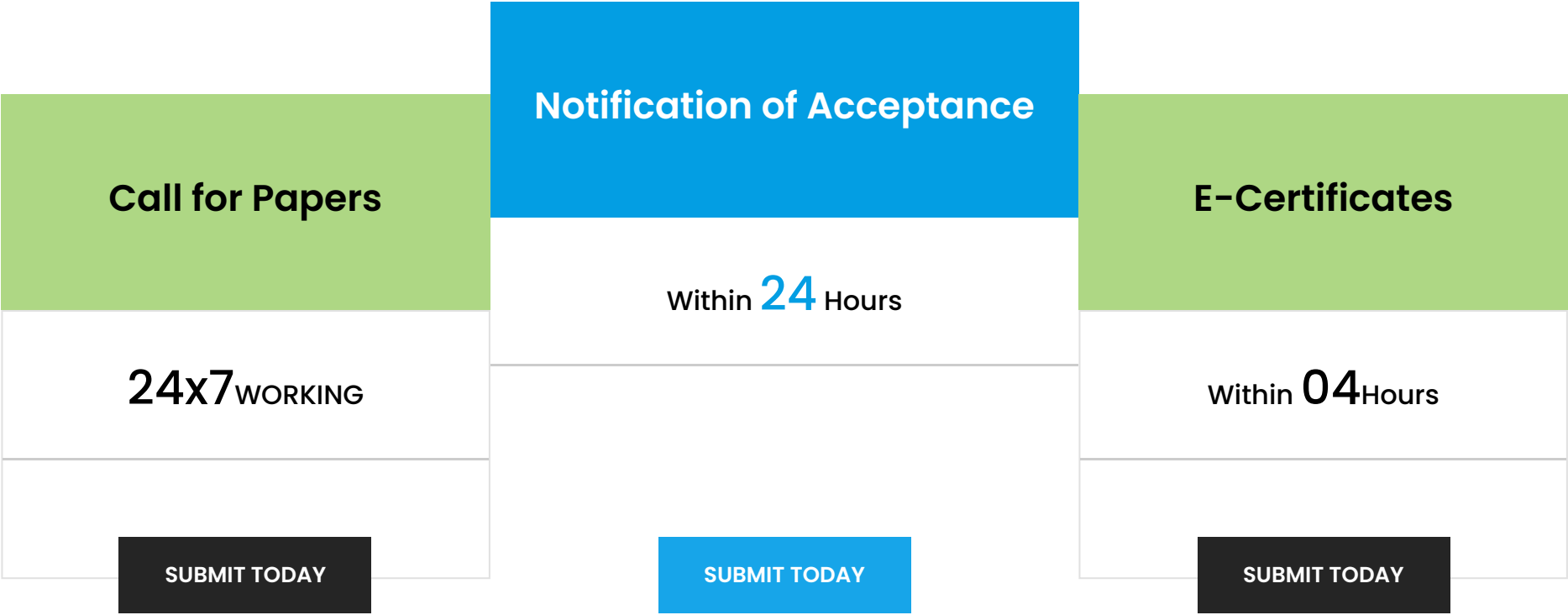
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Formulation and Characterization of Sodium Valproate 200mg Enteric Coated Tablets

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ABSTRACT

PURPOSE: Enteric-coated oral tablets have a coating that protects the tablet from stomach acid and protects the lining of the gastrointestinal tract from irritation by the drug. The aim of this study was to formulate and optimize sodium valproate enteric coated tablets to reduce the gastrointestinal tract side effects. **METHODS:** Core tablets were prepared by wet granulation. The formulation optimization was done by applying Taguchi orthogonal design L9. Nine formulations were prepared by variation in three levels of four factors, namely, diluents type (microcrystalline cellulose, dibasic calcium phosphate, maize starch), punch shape (diamond, round, almond), coating type (Instacoat, Wincoat, Colorcon) and coat percentage (20%, 24%, 28%). **RESULTS:** The results showed that almost all factors had a significant effect on the weight variation except punch shape. Also, type of diluent and punch shape had significant effects on the hardness and the punch shape may affect the thickness. Coat type had a significant effect on the disintegration time while its percentage had a significant effect on the assay. All factors had no significant effect on in vitro drug release but it might slightly be affected by the type of diluents and coat. **CONCLUSIONS:** It can be concluded that the best formula could be formulated by Instacoat as a type of coat, 24% percentage of coat, dibasic calcium phosphate as a diluent and round tablet shape. The present study showed the possibility of formulating sodium valproate in good enteric coated tablets to reduce its side effects and to increase patients' compliance.

Keywords: Sodium valproate, enteric coat, experimental design, percent of coat, dye shape

I. INTRODUCTION

1.1. Tablet Coatings

Coating is a process by which an essentially dry, outer layer of coating material is

applied to the surface of a dosage form in order to confer specific benefits that broadly ranges from facilitating product identification to modifying drug release from the dosage form (1). Tablet coatings perform one or more of the following functions; they may mask the taste of unpalatable drugs, protect the drug from deterioration due to light, oxygen or moisture, separate incompatible ingredients, they control the release of medicament in the gastrointestinal tract and they provide an elegant or distinctive finish to the tablet (2). Coating a solid dosage form in a polymeric film may generate a product that exhibits a controlled release of active components, protection from external conditions and provides physical and chemical protection to the specified component (3). The materials used for coating may largely comprise sucrose as sugar coating, water-soluble film-forming polymers as film coating or substances which are soluble in the intestinal secretions but not in those of the stomach as enteric coating (2). Functional coating of tablets include coating to modified drug release from the delivery systems such as delayed release (Enteric coated drug delivery system), sustained release (extended release), Controlled release (Site specific and Receptor targeting) (4).

1.2. Enteric Coating

Enteric-coated oral tablets have a coating that protects the tablet from stomach acid and protects the lining of the gastrointestinal tract from irritation by the drug. Enteric-coating is also a technique used in making sustained-release tablets (5). Delayed release dosage forms are the best formulations which are used for drugs that are destroyed in the gastric fluids, or cause gastric irritation, or are absorbed preferentially in the intestine. Such preparations contain an alkaline core material comprising the active substance, a separating layer and enteric coating layer. Enteric coatings are usually formulated with synthetic

“Formulation and Evaluation of Anti-Aging Cream Containing Liquorice”

*Pravin G. Kukudkar, ¹Mitali V. Rathod, ²Manisha R. Basantwani,
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ABSTRACT

Aging is one of the common disorder caused due to various factors like altered metabolism, lack of nutrients and antioxidants, pollution, exposure to sun rays, dust, age, sleep, general health condition, emotional well-being, physical impairment, disease, etc. ageing leads to lack of confidence and negative impact of mental health of a person. This research focuses on various anti-ageing creams for the prevention of ageing.

Creams are semisolid preparation that contains one or more medicaments usually in a base with refreshing fragrances and are intended to spread on skin easily. The anti-ageing creams are the one of widely used dosage form, anti-ageing creams often are moisturizer with active ingredient that offer additional benefits. The effectiveness of these products depends in part on your skin type and the active ingredient. The materials, ingredient required for the preparation of anti-ageing cream, properties of active pharmaceutical ingredient used for, different storage conditions. The present review covers more or less all aspects associated with anti-ageing cream and also throws light on the development criteria for anti-ageing cream.

KEYWORDS : Antioxidants, sun rays, ageing, anti-ageing.

I. INTRODUCTION

SKIN^[6]

The skin is the largest organ of the body, with a total area of about 20 square feet.

Structure of the skin

The skin consists of three main layers:

Epidermis (the outer layer)

Dermis (the middle layer)

Subcutaneous or hypodermic

Functions

Skin performs the following functions:

- **Protection:** An anatomical barrier from pathogens and damage between the internal and external environment in bodily defense. Langerhans cells in the skin are part of the adaptive immune system.
- **Sensation:** Contains a variety of nerve endings that jump to heat and cold, touch, pressure, vibration, and tissue injury.
- **Thermoregulation:** Exocrine (sweat) glands and dilated blood vessels (increased superficial perfusion) aid heat loss, while constricted vessels greatly reduce cutaneous blood flow and conserve heat. Erector pili muscles in mammals adjust the angle of hair shafts to change the degree of insulation provided by hair or fur.
- **Control of evaporation:** The skin provides a relatively dry and semi-impermeable barrier to reduce fluid loss.
- **Storage and synthesis:** Acts as a storage center for lipids and water

SKIN AGEING^[13]

- Skin ageing is the result of continual deterioration process because of damage of cellular DNA and protein.
- Ageing process is classified into two distinct type, i.e. “sequential skin ageing” and “photo-ageing”.
- Sequential skin ageing is universal and predictable process characterized by physiological alteration in skin function. In the ageing process keratinocytes are unable to form a functional