Companies and Intellectual Property Commission

a member of the dtl group

Date: 2022-09-02

Your reference: PT_CP_ZA0000046610
Our reference:

Enquiries: Strength Leshilo
Tel no: 012 394 5291

ACCEPTANCE OF COMPLETE SPECIFICATON

Dear Sir / Madam

Sibanda & Zantwijk

PATENT APPLICATION NO 2022/08192 ACCEPTED ON 2022-09-02

In accordance with the provisions of the Patents Act, 1978, I hereby give you notice of the acceptance of the complete specification of your application for a patent.

The accompanying notice on Form P8 must be advertised in the patent Journal within three months of the date of this notice. The notice must be submitted for advertisement to CIPC in one of the following manners:

- Electronic Format - document on CD ROM/ DVD (text in MSWord format – not PDF): submit at the Lodgement Counter at CIPC Office. Specify clearly that the documents are submitted for publication in the E- Patent Journal.
- Email to: patentjournal@cipc.co.za (Note that the text part of the attachment should be in MSWord format – not PDF)
- Fax to: 086 750 3295
- Only in exceptional cases, where customers do not have access to electronic facilities at their disposal, documents may be submitted in paper form at the Lodgement Counter at CIPC Office.

All enquiries should be directed to: Mr Bernard Ngoepe at Tel: (012) 394 5066 or Ms Bontle Phoko at Tel: (012) 394 5053 or email to: Patentjournal@cipc.co.za

On publication of the acceptance in the Patent Journal the patent shall be deemed to have been sealed and granted on the date of publication.

Yours faithfully

Registrar of Patents

REPUBLIC OF SOUTH AFRICA
PATENTS ACT, 1978
PUBLICATION PARTICULARS AND ABSTRACT
[Section 32(3)(a) – Regulation 2291)(g) AND 31]

OFFICIAL APPLICATION NO.	LODGING DATE	ACCEPTANCE DATE
21 01 **2022/08192**	22 2022/07/22	47 2022-09-02

INTERNATIONAL CLASSIFICATION	NOT FOR PUBLICATION
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EARLIEST PRIORITY CLAIMED

COUNTRY	NUMBER	DATE
33 IN	31 202211016130	32 2022/03/23

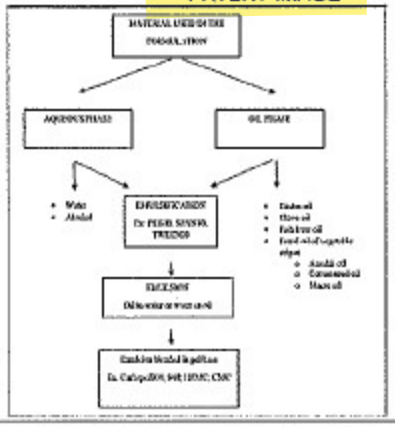
TITLE OF INVENTION

54 FORMULATION DEVELOPMENT AND EVALUATION OF POLY-HERBAL NANO-EMULGEL FOR TOPICAL DRUG DELIVERY

57 The endeavor of present research is to formulation and development of Curcumin loaded nano-emulgel (NEG's) formulations together with its evaluation for anti-oxidant potential. Curcumin loaded NEG's has been formulated using curcumin and polymers, i.e. carbopol 934, methyl paraben, propyl paraben, propylene glycol, tween 80, linseed oil and vitamin E in different ratio as antioxidant, emulsifier, preservative based on solubility and emulsification potentiality. NEG's has been formulated by blending two separate phases; aqueous phase (tween 80) and non-aqueous phase (propylene glycol, methyl and propyl paraben, flax seed oil and vitamin E) at 700o using high speed homogenization technique. Five formulations have been formulated and characterized by various parameters i.e. physical examination, pH measurement, viscosity, spreadibility, extrudability, Particle size, Zeta potential, anti-oxidant(in-vitro), permeation studies, IR and DSC analysis. NEG's were formulated using curcumin, vit. E, flax seed oil, emulsifiers as well as preservatives and results were excellent and reproducible. All formulations were analyzed for skin permeability through using Franz diffusion cell. Five poly-herbal nano-NEG's formulations have been developed and characterized, among them F3 formulation showing excellent results with zeta potential

(20.2), particle size (690.3nm) and sharp peak (83.398o) DSC analysis. F3 formulation also showing excellent anti-oxidant potential with IC50 value of 2.17 and was comparable with that of standard (1.93±2.14) respectively. Curcumin based nano-NEG's have been formulated and characterized showed excellent anti-oxidant potential and found to be stable as indicated by zeta potential with particle size (690.3nm). This formulation showed excellent results can be used for cosmetic purposes.

PATENT IMAGE



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