Aloe Vera is a semi tropical plant. It is one of the oldest known medicinal plants gifted by nature, Aloe Vera often called Miracle plant known by many names. It contains more than two hundred tonic ingredients including essential amino acids, enzymes, glucose and more. Also contains the most essential components required by the human body. It is grown wild in hedge rows in dry soil conditions and almost all parts of India. It can be grown even under constant drought conditions. Commercial cultivation and utilization of this plant with the application of technology can be of great value. There are various benefits of this plant; it is used to support the natural healing of skin that has been damaged. A common usage is to soothe sunburned skin. Aloe Vera can also be made into juices, gels, powders and is often added to products. For example it can be found in cosmetics, shampoos, lotions and many other common household Aloe Vera products. The many benefits of Aloe Vera are not fully researched as of yet. Processing of Aloe Vera gel derived from the leaf pulp of the plant, has become a big industry worldwide due to the application in the food industry. It has been utilized as a resource of functional food, especially for the preparation of health drinks which contain Aloe Vera gel and which have no laxative effects. Given the exponentially growing demand for it in the international market, it presents the finest commercial opportunity among the various medicinal plants. Also, India is among the few countries gifted with the unique geographical features essential for cultivation of Aloe Vera and other high potential medicinal plants.

Some fundamentals of this book are chemical investigations of different parts of the leaf, agro technique: Aloe Vera, economics of cultivation per hector, aloe (Aloe Vera) investment opportunity, specialty raw material market for cosmetics/toiletries, strategy for capacity creation and marketing, influence of Aloe Vera on the glycol amino glycans in the matrix of healing dermal wounds in rats, effects of low molecular constituents from Aloe Vera gel on oxidative metabolism and bactericidal activities of human neutrophils, Aloe Vera & aids research, anti diabetic activity of aloes: preliminary, aloe reduction in ulcers, erosions & hemorrhages, extraction process, processing steps, extraction process of aloe gel and powder etc. This book highlights such technical details to guide and encourage new entrepreneurs. It is very useful book for consultants, farmers, students of Agricultural universities, libraries etc.

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Nitro chemopreventive effects of plant polysaccharides (Aloe barbadensis Miller, Lentinus edodes, Ganoderma lucidum and Coriolus versicolor).
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Rhein and aloe-emodin kinetics from senna laxatives in man.
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Some pharmacological actions of aloe extracts and Cassia abbreviata on rats and mice.
Effects of low molecular constituents from Aloe vera gel on oxidative metabolism and cytotoxic and bactericidal activities of human neutrophils.
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An anti-complementary polysaccharide with immunological adjuvant activity from the leaf parenchyma gel of Aloe vera.
[Effects of aloe extracts, aloctin A, on gastric secretion and on experimental gastric lesions in rats].
Effect of water extracts of aloe and some herbs in decreasing blood ethanol concentration in rats.
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Comparative evaluation of aloe vera in the management of burn wounds in guinea pigs.
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The Aloe vera phenomenon: a review of the properties and modern uses of the leaf parenchyma gel
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Aloe vera may mimic azt without toxicity
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Aloe Reduction In Ulcers, Erosions & Hemorrhanges in the Stomach
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Experimental & clinical observations on frostbite
Alvagel as a therapeutic agent in the treating of radiation burns
Beneficial effects of aloe in wound healing
The external use of Aloes
Treatment of experimental frostbite with pentoxifylline & Aloe vera cream
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Wound healing. Oral and topical activity of Aloe vera.
Processed Aloe vera administered and topically inhibits inflammation
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Anti-inflammatory and wound healing activity of a growth substance in Aloe vera.
Anti-inflammatory & wound healing properties of Aloe vera
Effects of topical medications on the healing of open pad wounds in dogs
Anti-inflammatory activity of extracts from Aloe vera gel.
Skin Disorders Virus: Bacteria, Fungi & Parasites
Dental Disorders
Aloe Vera Gel Toothpaste
Aloe in Dentistry
Why Aloe may work
Use of Whole-Leaf Aloe
8. Patent
Herbal Skin regeneration and method
A method for skin regeneration comprising
Description
Background of the Invention
Summary of the Invention
Detailed Description of the Invention
U.S. Pat. 6,030,622
Herbal Extract composition and method
(2000) with immune boosting capability
Background of the Invention
Field of the Invention
Description of the Background Art
Summary of the Invention
Detailed Description of the Preferred Embodiments
Extract Preparation
Preparation of Extract of ARUM ALOE
Preparation of Extract of POMEGRANATE.
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Preparation of Combined Extracts of ARUM, POMEGRANATE, TEA and HIBISCUS
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In Vitro Inhibition of gp 120 Binding to MT-4 Cells Measured with Anti-gp 120 Monoclonal Antibody.
Chemical Analysis of Combined Extracts
Aloe vera gel toothpaste
United States Patent 5,294,434 March 15, 1994
Summary of Invention
Detailed Description
United States Patent 5,989,560
November 23, 1999
Herbal intestinal tract cleanser
Field of the Invention
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Summary of the Invention
Detailed Description of the Preferred Embodiments
Aloe vera ointment
United States Patent 4,725,438 February 16, 1988
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United States Patent 5,904,924 May 18, 1999
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Aloe Vera Leaf Processor
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Detailed Description of the Invention
U.S. Pat. 5, 215, 760 (1993)
Detailed Description of the Preferred Embodiments
U.S. Pal 4,309,180 (1983)
Cosmetic facial preparation containing aloe vera

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Detailed Description of the Preferred Embodiment
U.S. Pat. 6,013, 259 (2000)
Aloe Vera Ophthalmic Solution

Background of the Invention

Brief Summary of the Invention

Detailed Description of the Invention

Allantoin

Extract of Lavender

Topical Compositions

Pharmaceutical/Cosmetic Compositions

Cleaning Compositions

Weighing

Washing

Filleting

Grinding

Homogenization

pH Adjustment

Selective Precipitation

Centrifugation

Weighing/Storage

Tray loading

Drying

Milling

Blending

Storage and Exportation

Moderate or Medium Filtration

(Filtration Using A Medium Filter)

Fine Filtration (Filtration Using A Fine Filter)

Ultrafiltration/Concentration

Ultracentrifugation

Low Speed Centrifugation

Dialysis

Anion Exchange Chromatography

Size Exclusion Chromatography

Step-Wise Filtration

Preparation of Bulk Pharmaceutical

Mannan (â€“BPMâ€“Å•)

Pilot Scale Sizing of Bulk Pharmaceutical

Mannans by Ultra-filtration

Purification and Depyrogenation of FBA using

Chromatography with subsequent Molecular

Sizing (DFBA)

Anti Viral Effects of Different Factors Obtained by

Chromatographic Separation of FBA

Cells and Culture media:

Reagents and Preparation:

Protocol of Mouse Pulmonary Inflammation

Model

Myeloperoxidase (â€“Mpoâ€“Å•) Assessment of Lavage

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Lavage Fluid

Tissue MPO Assessment

MPO Reaction
Mouse Croton Oil Ear Inflammation Model
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Mouse TNF-α Assay in Biological Fluids
Centrifugation of Suspension of Results Obtained
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Results from Factors Using Methods as Described
IL-6 Production:
IL-1 α Productions:
Microparticulate Factor From FBA and No Production
Macrophage Activation and Anti-inflammatory
Activities
Epithelial Cells (EC) Proliferation
IL-6 Assay
RAW Cells Secreted Interleukin-6 in Response
to FBA
ECMF Stimulated IL-6 Production
Anti-Inflammatory Activities of Soluble Factors
Filtration with 0.1 μm Filters of Microparticle
Factors
Factors of FBA Sized Filtration through Syringe
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About NIIR

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