



GLYCIBRIGHT®

A Multi-function Skin Health Active

Standardized Extract of Licorice Root



Anti-Oxidant



Photo Protection



Melanin Reduction

Botanical Source

The Botanical source of GlyciBright is Licorice, one of the most extensively used plants from Ayurveda. Licorice has proven skin care benefits: anti-oxidant, photo-protection, skin lightening, anti-inflammatory and skin soothing activity.

GlyciBright



Standardized extract of Licorice Root: 5% Glabridin



Available as powder form: easy to store and use



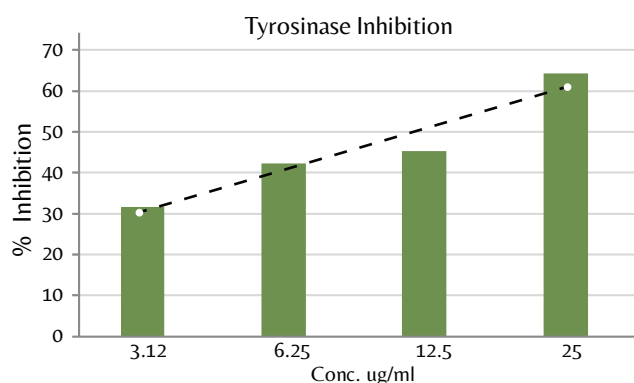
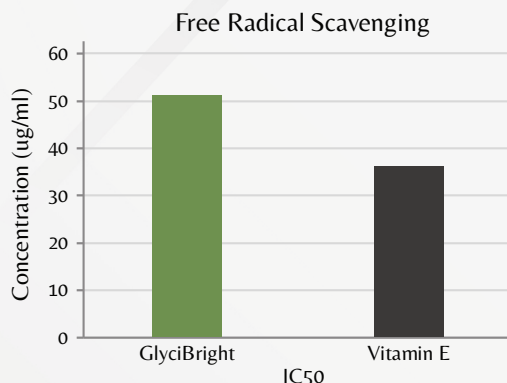
Studied through various in-vitro models for skin care benefits



Proven multi-functional skin care active

Antioxidant Activity

- In-Chemico Assay
- Measure the reduction in ABTS free radical
- GlyciBright showed powerful scavenging potential in a dose dependent manner
- IC₅₀ value of GlyciBright: 51 ug/ml | Vitamin E: 36 ug/ml

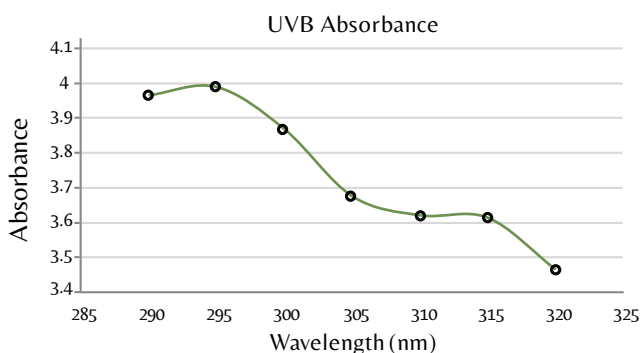
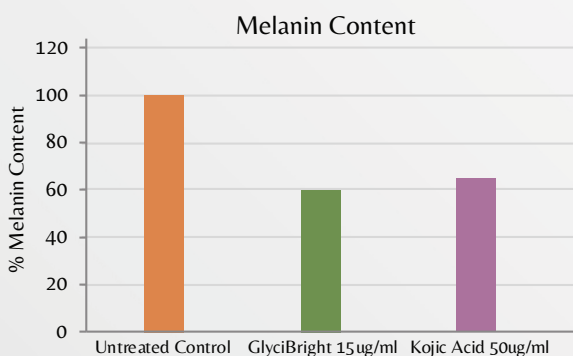


Tyrosinase Inhibition

- Enzymatic Assay
- Mushroom tyrosinase enzyme
- GlyciBright inhibits tyrosinase enzyme in a dose dependent manner
- IC₅₀ value of GlyciBright: 20 ug/ml | Kojic acid: 40 ug/ml

Melanin Synthesis

- In-Vitro Assay
- B16F10 melanoma cells
- GlyciBright reduces melanin content by 40% at 15 ug/ml



UV Absorption

- GlyciBright absorbs UVB across the region 290-320nm
- Theoretical SPF: GlyciBright @ 250 ug/ml: 37 | OMC @ 50 ug/ml: 32

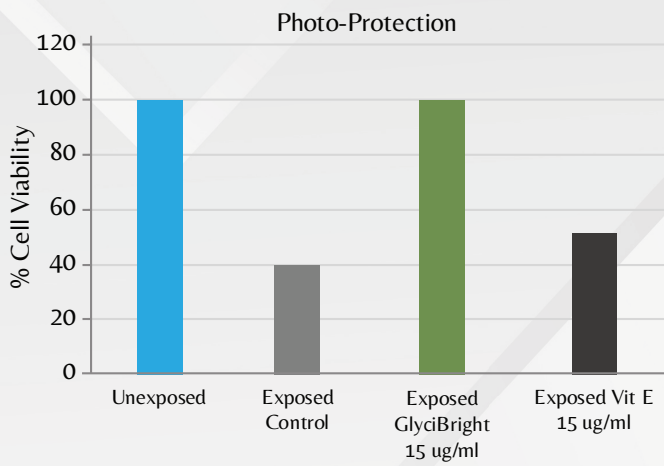
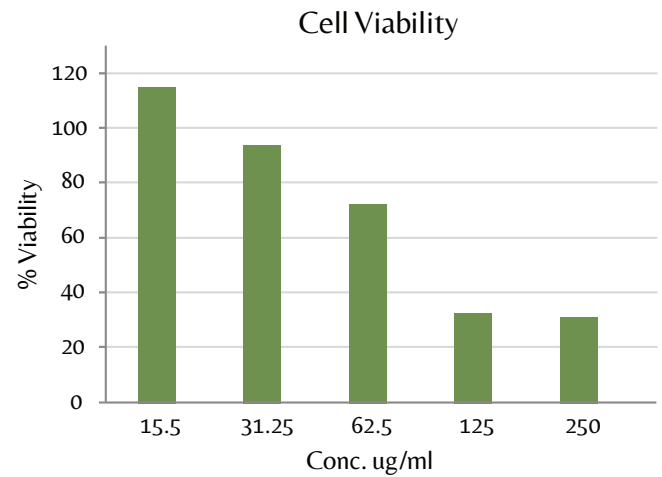


Photo-Protection

- In-Vitro Assay
- Human Dermal Fibroblast cell lines
- Cells pre treated with the test materials & exposed to UVB radiation
- Cell viability was measured after UV irradiation
- GlyciBright™ showed 100% cell viability compared to 40% in UV-control at 15 ug/ml

Safety

- Cell toxicity studied using Human Dermal Fibroblast cell line
- Cells exposed to test material & viability assessed
- GlyciBright was found to be safe till 100 ug/ml (IC50 on cell cytotoxicity)



Solubility & Formulation Guidelines

Excipient GlyciBright : Excipient	Class	Solubility	Formulation Compatibility of Excipient		
			Aqueous Emulsions	Surfactant Base	Silicon Base
1 : 10					
Propylene Glycol	Humectant	Partially soluble	●	●	
Ethanol	Solvent	Soluble	●		
Ethoxy Diglycol	Solvent	Soluble	●	●	
Glyceryl Mono & dicaprylic Caprate	Surfactant	Soluble	●	●	●
PEG- 6 Caprylic/ Capric Glyceride	Emollient	Soluble	●	●	●
PEG -7 Glyceryl Cocoate	Emollient	Soluble	●	●	●

Applications

Skin Brightening Facial Care Range
Anti Tan Facial mask
BB & CC Creams
Body Oil & Lotion
Deodorants

Dosage

0.1-0.5%



Ready to launch Skin Care Range available

To know more connect with us on herbals@keva.co.in