

## **I. Project name**

Research project on donkey milk cosmetics

## **II. Project objectives**

This project plans to develop donkey milk cosmetics with patented technology and featured effect based on evaluation of product safety/adaptability and effect, and mechanism study of featured effect, optimize the use value of donkey milk, and increase the profitability of donkey milk, thus laying a foundation for industrial production.

1. There is no limit to the technologies used to develop donkey milk cosmetics, but the product process route shall be clear-cut and complete.
2. To develop multiple donkey milk cosmetic products for 4 series: moisturizing, whitening, anti-aging and cleaning, supported by 2-4 new patents and 3-5 research papers, in compliance with the *Regulations Concerning the Hygiene Supervision over Cosmetics* issued according to the No.13 Order of the Ministry of Health of the People's Republic of China (issued on March 27, 1991). All the products shall pass the safety/adaptability evaluation (including but not limited to the testing of the physical and chemical indexes, bacteria index, toxicological index and human body safety of the products), in accordance with the requirements of the *Safety and Technical Standards for Cosmetics (2015)* issued with the announcement (No.268 in 2015) of the China Food and Drug Administration, the Regulation (EC) No. 1223/2009 on cosmetics and the

Decision 2013/674/EU. The product efficacy evaluation is in accordance with the scientific requirements of the cosmetic efficacy assessment and skin physiology, via instrument measuring (the evaluation of moisturizing effect includes but is not limited to skin moisture measuring and skin elasticity measuring; the evaluation of whitening effect includes but is not limited to skin color measuring and skin melanin & hemoglobin (erythema) measuring; the evaluation of anti-aging effect includes but is not limited to skin wrinkle measuring; and the evaluation of cleaning effect includes but is not limited to skin grease content measuring), image analysis measuring and consumers subjective evaluation. The results of the three evaluation methods shall all indicate significant difference. [The application shall specify the process techniques and flows of the 4 series of skin care cosmetics (e.g., face mask, soap, lotion, cream and solution) for moisturizing, whitening, anti-aging and cleaning, along with proposals for evaluation of product safety/adaptability and effect, and mechanism study of featured effect. Otherwise, the application shall be deemed void and removed from further consideration.]

3. To put forward main process parameters and technical process flows for the development of cosmetics with donkey milk, as well as complete technical standards for donkey milk cosmetics, built upon an initial quota of 50kg of donkey milk.

4. To establish parameters for every link in the production control of

donkey milk cosmetics, and develop standards and user manuals for donkey milk cosmetics, in an effort to promote the development process of add-on products for the donkey industry.

5. The donkey milk used for experimental purposes is provided by Dong-E E-Jiao Co., Ltd.

6. The project is completed within a 2-year period.