



HERBAL INDONESIA

E C O S Y S T E M



A Kalbe Company



About Us

Herbal Indonesia is a division in PT Bintang Toedjoe (Indonesia) which **handles all the process of Herbal Plant Extract**. This division was created to ensure the consistency of supply and quality of herbal extract raw materials to support our company's herbal medicine products as well as creating sales to both local and overseas companies.

To begin with, PT Bintang Toedjoe is a subsidiary of PT Kalbe Farma Tbk. which was established in 1946 and is engaged in pharmaceutical industry, food supplement and herbal medicine.

Both our factories and offices are certified with GMP (Good Manufacturing Practice), HACCP (Food Safety Management), ISO 9001 (Quality Management System), ISO 14001 (Environmental Management System) dan OHSAS (Occupational Health and Safety Assessment Series).





We realize that in order to produce high quality herbal medicine products, we need raw materials based on high quality herbal extracts with guaranteed supply consistency.

In this case, the quality of herbs harvested and used is very influential in producing high-quality herbal extracts, and to obtain high-quality herbal crops is very dependent on the competence of farmers, plant seeds used, cultivation processes and environmental conditions.

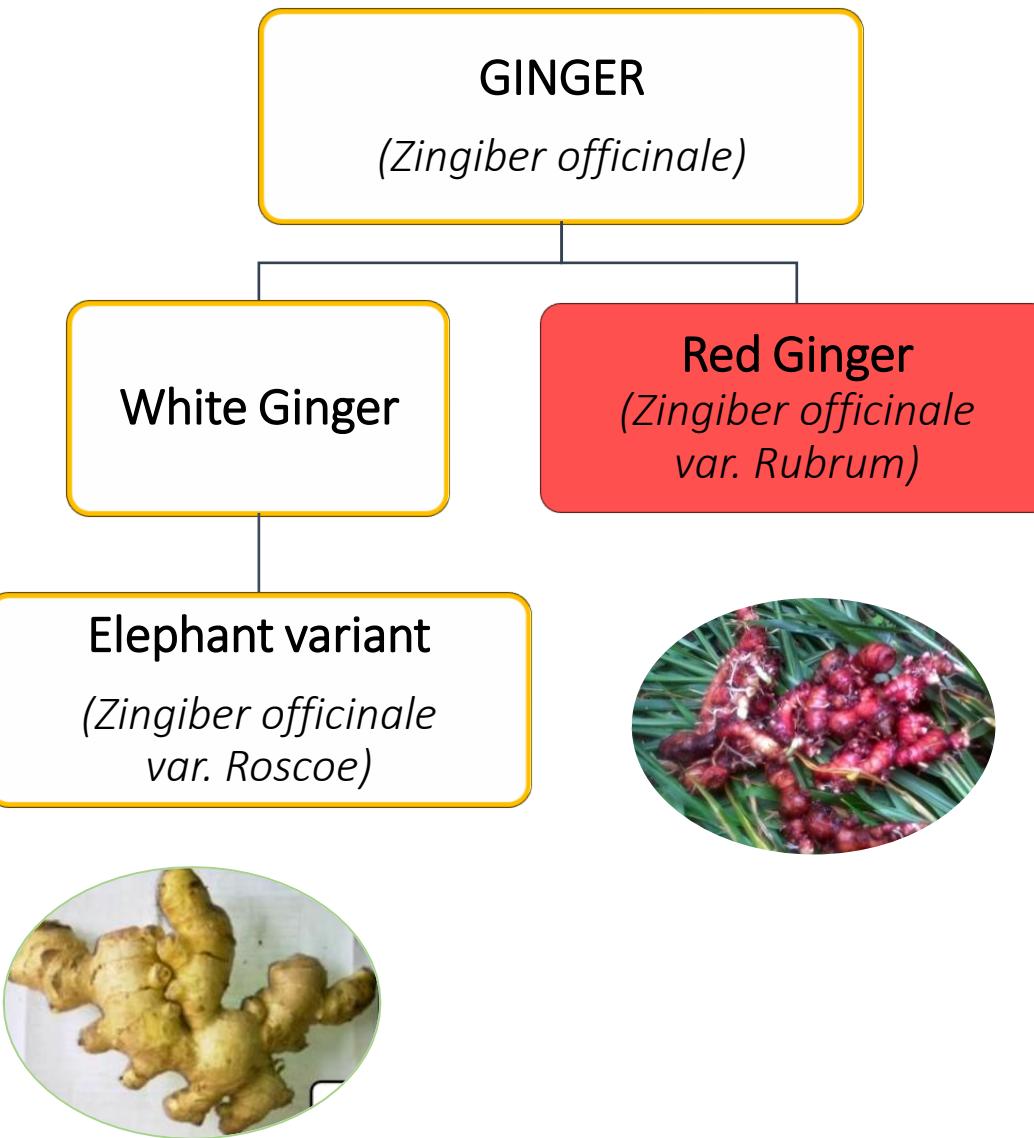
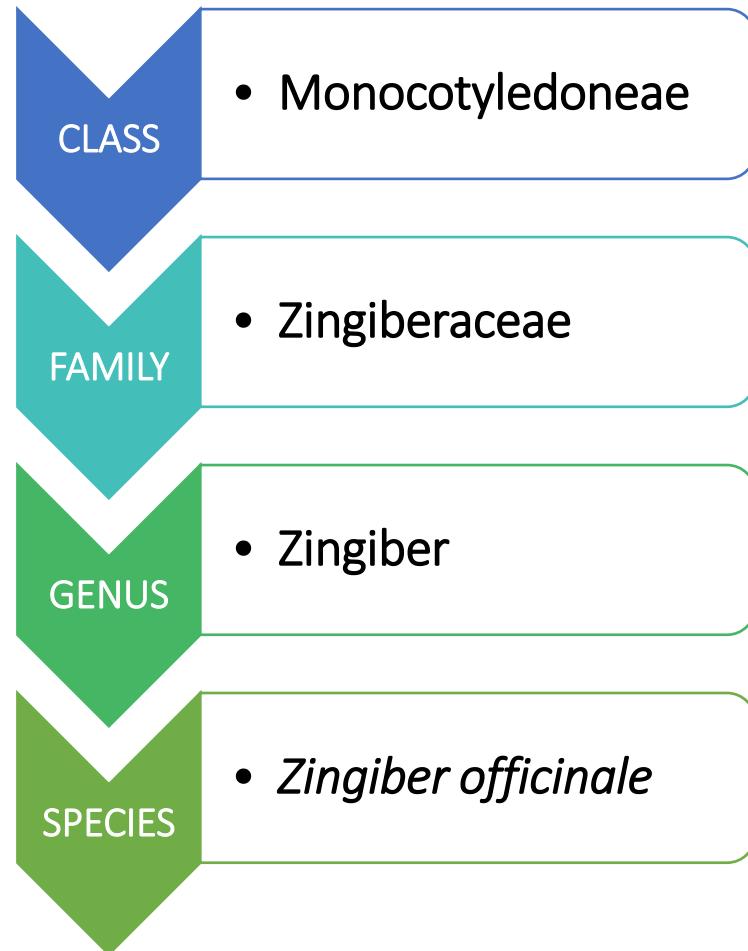
Herbal Indonesia is actively involved in every process in making our herbal extracts, from the cultivation of herbal plants to the extraction process, in order to ensure the best quality of the herbal extracts produced.

NURSERY



We use conventional and tissue culture (on development) **Red Skin Ginger seeds** that is uniform and healthy to get the best harvest from our farmers





Source: Wardana et al, 2002

RED GINGER HEALTH BENEFITS

ANTI INFLAMMATION

Inhibits production of pro-inflammatory agents, e.g NO/iNOS, PGE2/COX2, TNF-a, IL-1b

<https://www.ncbi.nlm.nih.gov/pubmed/20136450>

ANALGETIC

Statistically significant effect on reducing symptoms of pain in preclinical study

Analgesic and anti-inflammatory activities of [6]-gingerol. Young, 2005 <https://www.sciencedirect.com/science/article/pii/S0378874104004404>.

ANTI HYPERGLICEMIC

Statistically significant anti-diabetic agent via its ability to enhance insulin sensitivity and to decrease hyperlipidemia in type 2 diabetic animals

<https://academicjournals.org/journal/IJMMS/article-full-text-pdf/2302B30377>

PLASMA LIPID LOWERING

Statistically significant reduce level of plasma triglycerides, total cholesterol, low-density lipoprotein cholesterol, free fatty acid

<https://academicjournals.org/journal/IJMMS/article-full-text-pdf/2302B30377>

URIC ACID LOWERING

Statistically significant reduce level of uric acid in plasma

www.jurnal.farmasi.umi.ac.id/index.php/fitofarmakaindonesia

WOUND HEALING

Statistically significant effect of red ginger extract on the macrophage numbers in traumatic oral mucosal ulceration

<http://id.portalgaruda.org/?ref=browse&mod=viewarticle&article=387983>

ANTIMICROBIAL

Red ginger extract show significant effect against gram positive and negative bacteria in vitro study



CULTIVATION

Our Team implemented "Red Skin Ginger Community Development" program to our farmer partners where we give **education, facilitation, and monitor** all the processes, starting from nursery, planting to post-harvest. We have set several standards to improve the yields and increase the competency of our farmer partners.

This shows our commitment in the welfare of **10.000 herbal farmers in Indonesia**.

POST HARVEST



Fresh red skin ginger that have been harvested then **cleaned, sliced and dried** to get a simplicia. Dried simplicia then checked in our laboratory to ensure that the quality meets the standards.

We give **purchase guarantee** for Red Skin Ginger simplicia that has met our standards.

RESEARCH & DEVELOPMENT



Hereafter, we continue with research and development at our **Herbal Center RnD Laboratory (in collaboration of B7 and Ubaya)** in determining the production method and specifications, including the active ingredients of our Red Skin Ginger product.

We set **6-gingerol** as the standard active ingredient from our Red Skin Ginger extract (*Redgine PE 003*).

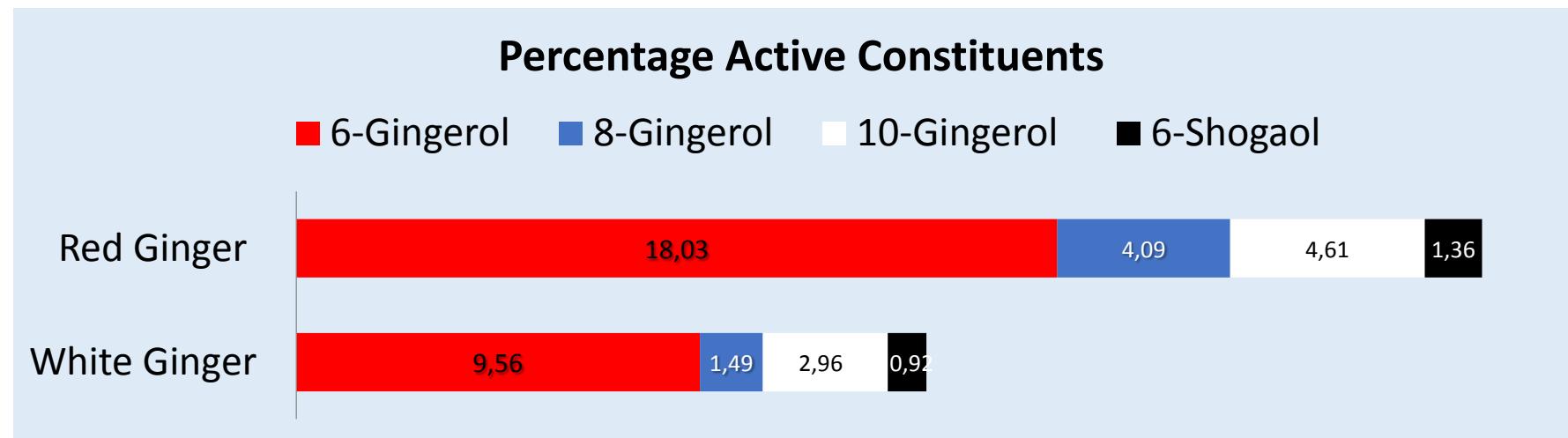
6-gingerol has been proven to have various health benefits, such as anti-oxydant, anti-inflammatory, and anti-flatulent.



ACTIVE CONSTITUENT CONTENTS

-  **GINGEROL**
-  **SHOGAOL**
-  **ZINGIBERENE**

Details	White Ginger	Red Ginger
Essential oil (%)	0.82 – 1.66	2.58-3.72
6-Gingerol (mg/g)	9.56	18.03
8-Gingerol (mg/g)	1.49	4.09
10-Gingerol (mg/g)	2.96	4.61
Total Gingerol	14.01	26.73
6-Shogaol (mg/g)	0.92	1.36
Pungency	*	**
Betacaroten + Proantocyanidin	-	+





EXTRACTION

We collaborated with a number of Extractors that have met the requirements of "**Good Manufacturing Practices**" in producing our Red Skin Ginger product.



RedGine is a Red Skin Ginger product's Brand from Herbal Indonesia, which consists of various kinds of red skin ginger derivative products for various applications

Brand	Product Application Recommendation					
	Herbal Medicine	Functional Food	Cosmetic	Food & Beverage	Seasoning	Veterinary
Red Skin Ginger Extract (Redgine PE 701)	-	-	-	✓	✓	-
Red Skin Ginger Standardized Extract (Redgine PE 003)	✓	✓	✓	-	-	✓
Red Skin Ginger Powder Simplicia (Redgine SP)	-	-	-	✓	✓	✓
Red Skin Ginger Liquid Extract	✓	✓	✓	-	-	-
Red Skin Ginger Oil	✓	✓	✓	-	-	-

Only available for Indonesia



HERBAL INDONESIA
ECOSYSTEM

redgine
RED GINGER
INGREDIENTS

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