

# PHYSTA TONGKAT ALI EXTRACT

## TECHNICAL SPECIFICATIONS



### EXTRACTION

Extraction Protocol	Physta® Standardized Hot Water Extract
Extraction Solvent	Water
Extraction Standards	Malaysia Standards MS2409
Extraction Temperature	40 - 100°C

### RAW INGREDIENT

Botanical Name	Eurycoma Longifolia
Source (Origin)	Pahang, Malaysia
Parts	Tongkat Ali root
Sustainability	Wild harvest with replantation programs
Purity Test	HPLC Chromatography tested

### MICROBIAL TEST

Bacteria Count	< 10 cfu /g
Yeast & Mould	< 10 cfu/g
Bile-tolerant Gram-Negative Bacteria	< 10 cfu/g

### CLINICAL TRIALS & TOXICOLOGY TESTS

Total Clinical Trials and Tests	26
Randomized Placebo Tests	Yes
Tested on Men and Women	Yes
In-Vitro and In-Vivo Lab Tested	Yes

### BIOACTIVE CONTENT

Eurycomanone	0.8% - 1.5%
Total Protein	22% - 35%
Total Polysaccharide	30% - 40%
Glycosaponin	40% - 45%

### TOXICITY TEST

Irritant Effect on Skin	No irritant effect
Acute Oral Toxicity	LD50 > 2,000 mg/kg bw
Sub-acute Oral Toxicity	NOAEL > 1,000 mg/kg bw
Sub-chronic Oral Toxicity	NOAEL > 1,000 mg/kg bw
In-Vivo Micronucleus Study	Non-genotoxic

### CERTIFICATIONS

GMP	EUROFINS
ISO 22000	Lloyd's Register
Adulterant Test	EUROFINS
Facility Inspection	USFDA
Halal	Department of Islamic Development Malaysia
GMP Compliance	Ministry of Health Malaysia
Certificate of Analysis (COA)	EUROFINS