



	ESSENTIAL OIL SINGLES		
	Plai (Central) Oil Zingiber cassumunar		
BATCH NUMBER	COUNTRY OF ORIGIN	EXTRACTION DATE	
PLN-110	Thailand	January 2024	

Gas Chromatography Analysis (%)

MONOTERPENE			
sabinene	51.72%	γ -terpinene	5.75%
β -pinene	3.23%	α -terpinene	2.84%
β -myrcene	1.82%	α -pinene	1.79%
terpinolene	1.05%	p-cymene	0.91%
α -thujene	0.84%	limonene (d)	0.61%
β -phellandrene	0.49%	α -phellandrene	0.08%
camphene	0.06%	(E)- β -ocimene	0.04%
(Z)- β -ocimene	0.01%		
MONOTERPENOL			
terpinen-4-ol	17.91%	(E)-thujanol	0.60%
(Z)-thujanol	0.56%	(E)-p-menth-2-en-1-ol	0.42%
(Z)-p-menth-2-en-1-ol	0.27%	(E)-piperitol	0.16%
linalool	0.03%	borneol	0.02%

ETHER

(E)-3,4-dimethoxyphenyl butadiene	3.04%
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SESQUITERPENE

β -sesquiphellandrene	2.02%	α -zingiberene	0.24%
β -bisabolene	0.12%	β -elemene	0.03%
β -caryophyllene	0.02%	γ -selinene	0.02%
α -curcumene	0.02%		

ESTER

terpinyl acetate	0.58%	bornyl acetate	0.02%
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OXIDE

1,8-cineole	0.49%
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SESQUITERPENOL

selin-11-en-4-ol	0.17%
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PHENOL

carvacrol	0.03%	thymol	0.01%
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