



Research article

Exploring *Elaeis guineensis*: Enzyme inhibition, antimicrobial properties, chemical composition and *in silico* docking analysis

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Supplementary

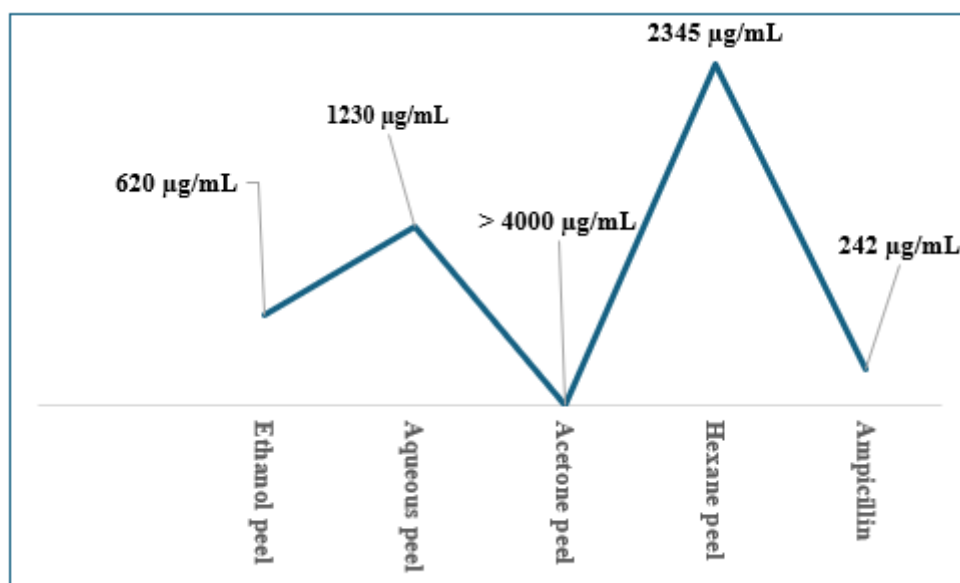


Figure S1. Minimum inhibitory concentration of the extract and ampicillin.

Table S1. An evaluation of the antibacterial efficacy of chemical compounds obtained from the leaves of *E. guineensis* was conducted against several bacterial strains, including their respective *Pa* values.

Compound	PubChem CID	Name	Bacteria	Confidence
1	637517	9-Octadecenoic acid, (E)	<i>Streptococcus viridans</i>	0.5120
			<i>Yersinia pestis</i>	0.2318
2	445639	Oleic Acid	<i>Streptococcus viridans</i>	0.5120
			<i>Yersinia pestis</i>	0.2318
3	11396	Naphthalene, 2,7-dimethyl-	<i>Yersinia pestis</i>	0.8390
4	785	Hydroquinone	<i>Yersinia pestis</i>	0.7629
			RESISTANT <i>Helicobacter pylori</i>	0.5900
			<i>Staphylococcus sciuri</i>	0.5567
			<i>Staphylococcus lugdunensis</i>	0.5291
			RESISTANT <i>Staphylococcus simulans</i>	0.5243
			RESISTANT <i>Salmonella typhi</i>	0.1801

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Compound	PubChem CID	Name	Bacteria	Confidence
5	6971003	Alpha-L-Glucopyranoside	<i>Yersinia pestis</i>	0.9016
			<i>Clostridium ramosum</i>	0.89
			<i>Actinomyces meyeri</i>	0.8176
			RESISTANT <i>Klebsiella oxytoca</i>	0.8077
			RESISTANT <i>Staphylococcus aureus</i> <i>subsp. aureus</i> RN4220	0.8041
			<i>Streptococcus oralis</i>	0.8034
			RESISTANT <i>Acinetobacter pittii</i>	0.7961
			<i>Mycobacterium mageritense</i>	0.7934
			<i>Streptococcus sp.</i>	0.7919
			RESISTANT <i>Mycobacterium ulcerans</i>	0.7624
			<i>Clostridium cadaveris</i>	0.7517
			<i>Legionella pneumophila</i>	0.7343
			<i>Staphylococcus lugdunensis</i>	0.7332
			RESISTANT <i>Burkholderia pseudomallei</i>	0.7324
			<i>Lactococcus lactis</i>	0.7106
			RESISTANT <i>Mycobacterium bovis</i>	0.6853
			<i>Nocardia transvalensis</i>	0.6674
			<i>Fusobacterium sp.</i>	0.6665
			<i>Dialister microaerophilus</i>	0.6596
			<i>Dialister pneumosintes</i>	0.6596
			<i>Streptomyces coelicolor</i>	0.6525
			<i>Streptococcus constellatus</i>	0.6422
			<i>Dialister propionificiens</i>	0.6232
			<i>Lactobacillus plantarum</i>	0.6221
			<i>Nocardia brasiliensis</i>	0.6154
			<i>Clostridium sordellii</i>	0.6124
			<i>Porphyromonas asaccharolytica</i>	0.6065
			<i>Peptostreptococcus micros</i>	0.5822
			<i>Nocardia otitidiscaviarum</i>	0.5743
			RESISTANT <i>Chlamydia trachomatis</i>	0.5627
			<i>Fusobacterium varium</i>	0.5346
			<i>Staphylococcus warneri</i>	0.5216
			<i>Streptococcus sanguinis</i>	0.5054
			<i>Corynebacterium jeikeium</i>	0.5041

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Compound	PubChem CID	Name	Bacteria	Confidence
6	134493	Methyl hexofuranoside	<i>Clostridium ramosum</i>	0.8335
			<i>Actinomyces meyeri</i>	0.7768
			<i>Dialister micraerophilus</i>	0.744
			<i>Dialister pneumosintes</i>	0.744
			<i>Dialister propionificaciens</i>	0.7148
			<i>Porphyromonas asaccharolytica</i>	0.652
			<i>Bacteroides stercoris</i>	0.6516
			<i>Prevotella oralis</i>	0.6442
			RESISTANT <i>Chlamydia trachomatis</i>	0.6379
			<i>Clostridium cadaveris</i>	0.6375
			<i>Mycobacterium mageritense</i>	0.6032
			RESISTANT <i>Acinetobacter pittii</i>	0.6032
			RESISTANT <i>Klebsiella oxytoca</i>	0.5845
			<i>Yersinia pestis</i>	0.5644
			<i>Parabacteroides merdae</i>	0.5567
			<i>Peptostreptococcus micros</i>	0.5478
			<i>Dialister invisus</i>	0.5455
			<i>Clostridium sordellii</i>	0.5446
			RESISTANT <i>Mycobacterium ulcerans</i>	0.5444
			<i>Prevotella disiens</i>	0.5309
			<i>Lactobacillus plantarum</i>	0.5257
			<i>Fusobacterium varium</i>	0.5225
			<i>Bacteroides uniformis</i>	0.5115
			<i>Bacteroides ovatus</i>	0.5058
7	12591	n-Nonadecanoic acid	<i>Streptococcus viridans</i>	0.6189
			<i>Clostridium ramosum</i>	0.5274
			<i>Salmonella enteritidis</i>	0.5247
			<i>Actinomyces meyeri</i>	0.5035
			RESISTANT <i>Salmonella typhi</i>	0.0451
8	5282760	10-Octadecenoic acid	<i>Streptococcus viridans</i>	0.5120
9	61896	2-Nonen-1-ol	<i>Dialister micraerophilus</i>	0.5548
			<i>Dialister pneumosintes</i>	0.5548
			<i>Dialister propionificaciens</i>	0.5139
			<i>Bacteroides stercoris</i>	0.5019
10	5364410	Z-8-Methyl-9- tetradecenoic acid	N/A	N/A
11	8187	10-Undecenal	N/A	N/A
12	15709092	1-octylcycloprop-1-ene	<i>Streptococcus sp.</i>	0.9170
			<i>Actinomyces israelii</i>	0.5218

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Compound	PubChem CID	Name	Bacteria	Confidence
13	5364368	1,5-Cyclododecadiene	<i>Yersinia pestis</i>	0.7043
			<i>Prevotella oralis</i>	0.6694
			RESISTANT <i>Chlamydia trachomatis</i>	0.5399
			RESISTANT <i>Salmonella typhi</i>	0.0956
14	203	Allantoic acid	<i>Yersinia pestis</i>	0.6536
			<i>Actinomyces meyeri</i>	0.592
			<i>Porphyromonas asaccharolytica</i>	0.5515
			<i>Dialister invisus</i>	0.528
			<i>Prevotella oralis</i>	0.5137
			RESISTANT <i>Salmonella typhi</i>	0.0111
15	985	n-Hexadecanoic acid	<i>Streptococcus viridans</i>	0.6189
			<i>Clostridium ramosum</i>	0.5274
			<i>Salmonella enteritidis</i>	0.5247
			<i>Actinomyces meyeri</i>	0.5035
			<i>Yersinia pestis</i>	0.4192
			RESISTANT <i>Salmonella typhi</i>	0.0451



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