

Supplementary materials

Suppl. Table 1. List of primers used for PCR assay in this study

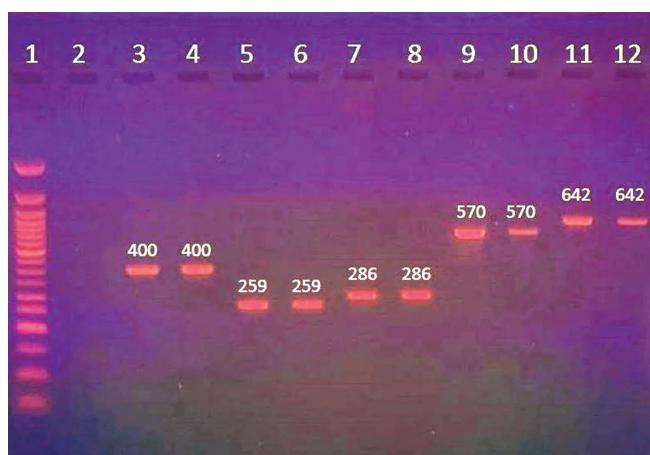
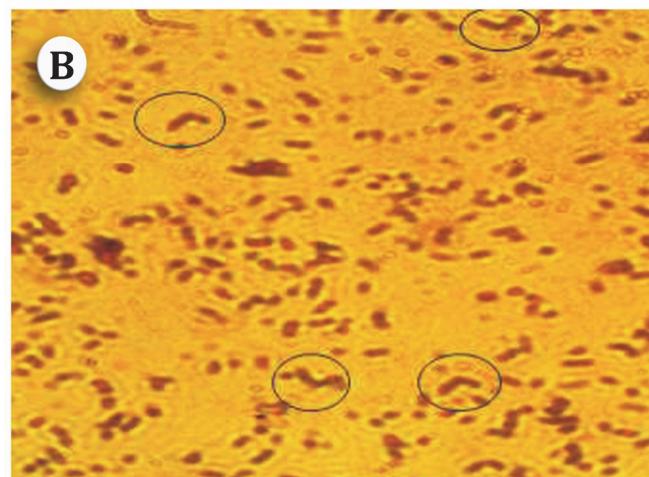
Target genes	Orientation	Primers sequences	
<i>16S rRNA</i>	Forward	5'CTG GAG AGA CTA AGC CCT CC-3'	
	Reverse	5'ATT ACT GAC GCT GAT TGT GC-3'	
<i>cagA</i>	Forward	5'AAT ACA CCA ACG CCT CCA-3'	
	Reverse	5'TTG TTG CCG CTT TTG CTC TC-3'	
<i>vacA</i>	<i>vacA (s)</i>	Forward	5'ATG GAA ATA CAA CAA ACA CAC-3'
		Reverse	5'CTG CTT GAA TGC GCC AAA C-3'
	<i>vacA (m)</i>	Forward	5'CAA TCT GTC CAA TCA AGC GAG-3'
		Reverse	5'GCG TCT AAA TAA TTC CAA GG-3'

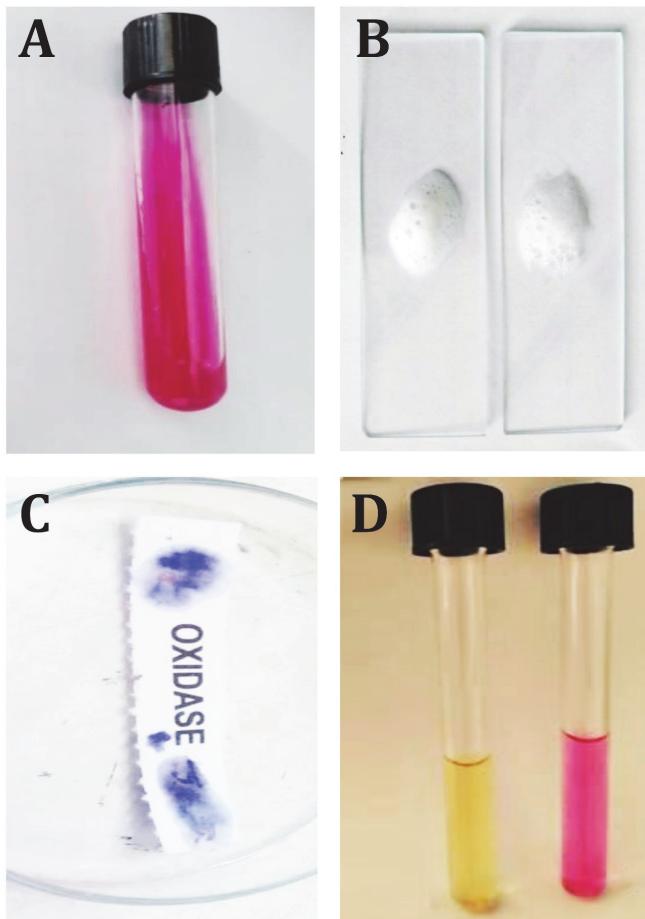
Suppl. Table 2. List of different plants which their essential oils have been tested for anti-*H. pylori* activity

English name	Latin name	Family name	Used part
Clove	<i>Syzygium aromaticum</i> L.	Myrtaceae	Flower buds
Thyme	<i>Thymus vulgaris</i> L.	Lamiaceae	Leaves
Rosemary	<i>Rosmarinus officinalis</i> L.	Lamiaceae	Leaves
Chamomile	<i>Matricaria recutita</i> L.	Asteraceae	Flowers
Cinnamon	<i>Cinnamomum zeylanicum</i> L.	Lauraceae	Bark

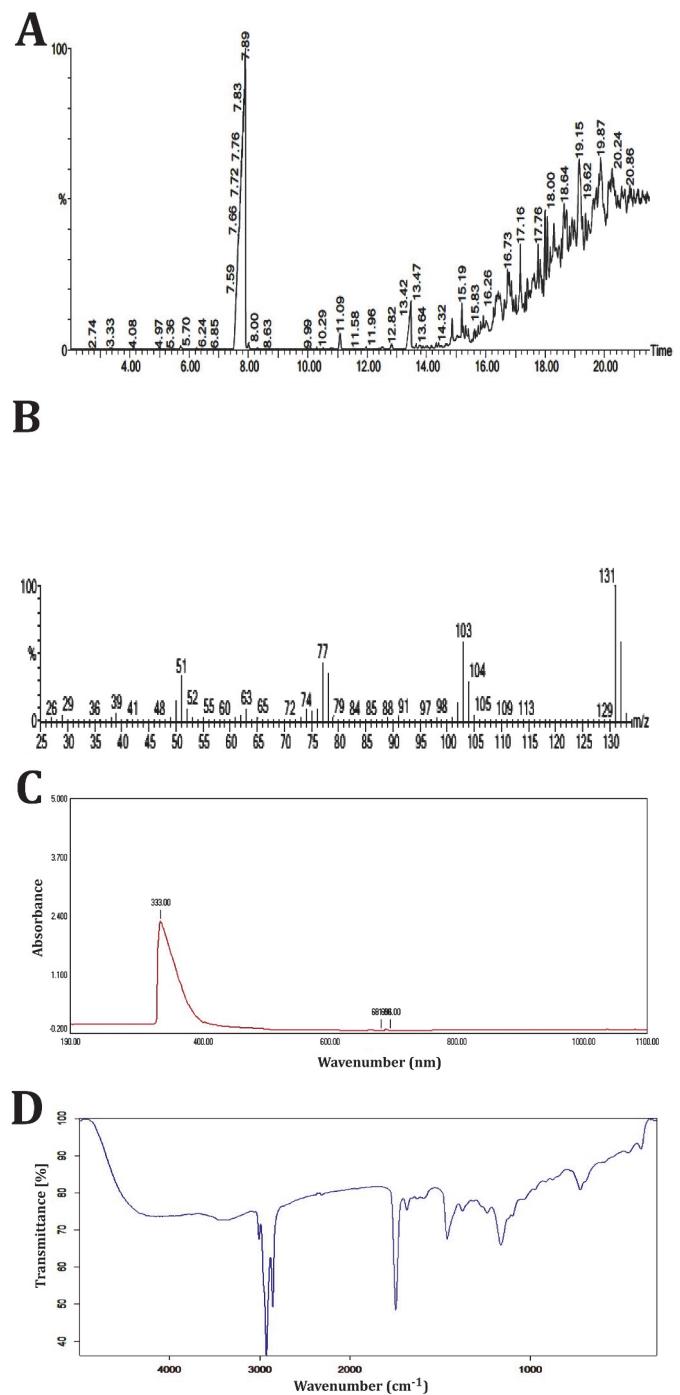
Suppl. Table 3. Antibiotic resistance percentage of the isolated *H. pylori* clinical isolates

Antibiotics	Symbol	Conc. (µg /disc)	Resistant isolates	
			No.	%
Amoxicillin	AMOX	25	22	78.6
Amoxicillin/Clavulanic acid	AMC	30	12	42.9
Erythromycin	ERY	15	16	57.2
Levofloxacin	LEV	5	8	28.6
Metronidazole	MTZ	5	28	100
Tetracycline	TE	30	11	39.3
Clarithromycin	CLR	15	22	78.6
Ciprofloxacin	CIP	5	12	42.9

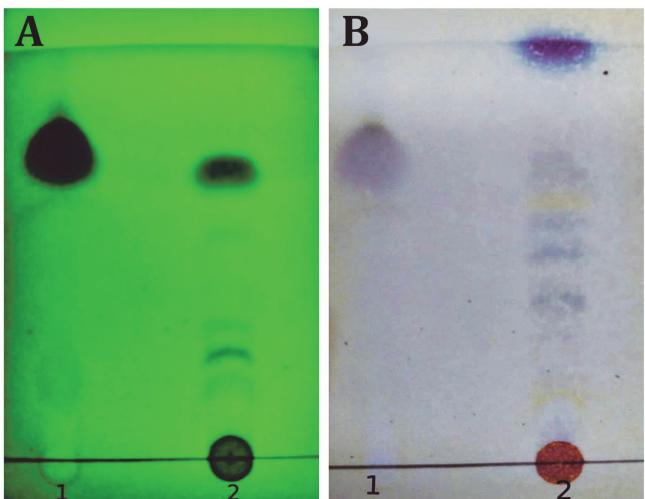




Suppl. Fig. 4. Biochemical tests of *H. pylori*. **(A)** Positive urease. **(B)** Positive catalase. **(C)** Positive oxidase. **(D)** Rapid urease test in Christensen's urea broth medium of an obtained gastric biopsy specimen.



Suppl. Fig. 5. Characterization of *C. zeylanicum* essential oil using GC-MS **(A)**, mass spectrum chromatogram of cinnamaldehyde **(B)**, UV spectrum **(C)**, and FT-IR **(D)**.



Suppl. Fig. 6. TLC photograph of *C. zeylanicum* essential oil. **(A)** Silica gel plate under UV light. **(B)** Silica gel plate under visible light after spraying with vanillin sulfuric acid reagent; Cinnamaldehyde standard (1), Tested *C. zeylanicum* essential oil (2).