HIGHLIGHTS

- An exhaustive survey of literature reveals that the occurrence of unusual fatty acids in different seed oils.

- The present research investigation describes the microwave assisted syntheses of novel bis-benzimidazoles derived from dibasic acids as eco-friendly reaction.

- Such bis-benzimidazole derivatives and isolated unusual fatty acids have been screened for their anti-bacterial and anti-fungal activities.

- The primary screening tests for anti-bacterial and anti-fungal activities showed that all the compounds were found to inhibit the micro-organisms.

- It is observed that most of the natural products showed a moderate activity against the different strains of bacteria and fungi. But, bis-benzimidazole derivatives showed good activity against the different strains of bacteria and fungi.