**Description**

**A COMPOSITION COMPRISING THE ANTI-VIRAL COMPONENTS FOR SUPPRESSING DNA GYRASE**

**Technical Field**

The invention relates to a composition comprising the anti-viral components for suppressing the DNA gyrase.

**State of the Art**

##### DNA gyrase is a bacterial enzyme that plays a role in the DNA replication. DNA gyrase is a type II topoisomerase present in E.coli. There is a group of antimicrobial agents used against bacterial DNA gyrase. These are called “Quinolones” (ciprofloxacin, ofloxacin, novobiocin, fluoroquinolone, etc.).

According to the state of the art, the invention no. WO 2000/024932 with classification “C12Q 1/68” entitled “Methods of identifying and characterizing mutations within bacterial DNA gyrase and FABI” allows for the simultaneous creation and identification, or identification of mutations that confer resistance to antibacterial compounds.

As a result, the presence of the need for a composition for suppressing the DNA gyrase and the inadequacy of the existing solutions have made it necessary to perform an improvement in the relevant art.

**Object of the Invention**

In order to eliminate the disadvantages of the state of the art, an object of the invention is to enable the suppression of the DNA gyrase.

Another object of the invention is to enable the suppression of the RNA ligase.

Another object of the invention is to enable the suppression of the DNA ligase.

In order to achieve the aforesaid advantages, the invention is a composition for suppressing the DNA gyrase, said composition being obtained by the components selected from the group comprising 2,​3,​7,​10,​11,​12-​tetrachloro-​10R-​methoxy-​2,​4-​dimethyl-​1-​oxo-​9S,​12R-dimethoxy-​2H-​diindol[1,​2,​3-​fg:3’,​2’,​1’-​kl]pyrrolo[3,​4-​i][1,​6]octadien-​4-​carboxylic acid methyl ester, 2,​3,​9,​10,​11,​12-​hexahydro-​10R-​methoxy-​3,​3-​trimethyl-​7-​oxo-​9S,​12R-​epoxy-​4H-​tetrafluoro[1,​2,​3-​fg:3’,​2’,​1’-​kl]pyrrolo[3,​4-​i][1,​6]benzodiazokin-​8-​carboxylic acid phenyl ester that are used individually or in combinations.

The structural and characteristic features and all the advantages of the invention will become more clearly understood from the detailed description provided below and therefore, the evaluation must be made taking this detailed description into consideration.

**Detailed Description of the Invention**

The invention is a composition comprising the anti-viral components for suppressing the DNA gyrase. The composition according to the invention enables the suppression of DNA gyrase, the suppression of RNA ligase and the suppression of DNA ligase.

The composition according to the invention contains 2,​3,​7,​10,​11,​12-​tetrachloro-​10R-​methoxy-​2,​4-​dimethyl-​1-​oxo-​9S,​12R-dimethoxy-​2H-​diindol[1,​2,​3-​fg:3’,​2’,​1’-​kl]pyrrolo[3,​4-​i][1,​6]octadien-​4-​carboxylic acid methyl ester, 2,​3,​9,​10,​11,​12-​hexahydro-​10R-​methoxy-​3,​3-​trimethyl-​7-​oxo-​9S,​12R-​epoxy-​4H-​tetrafluoro[1,​2,​3-​fg:3’,​2’,​1’-​kl]pyrrolo[3,​4-​i][1,​6]benzodiazokin-​8-carboxylic acid phenyl ester.

Said composition is obtained by a mixture of the aforesaid components according to the following ratios by weight:

1-99% 2,​3,​7,​10,​11,​12-​tetrachloro-​10R-​methoxy-​2,​4-​dimethyl-​1-​oxo-​9S,​12R-dimethoxy-​2H-​diindol[1,​2,​3-​fg:3’,​2’,​1’-​kl]pyrrolo[3,​4-​i][1,​6]octadien-​4-​carboxylic acid methyl ester,

99-1% 2,​3,​9,​10,​11,​12-​hexahydro-​10R-​methoxy-​3,​3-​trimethyl-​7-​oxo-​9S,​12R-​epoxy-​4H-​tetrafluoro[1,​2,​3-​fg:3’,​2’,​1’-​kl]pyrrolo[3,​4-​i][1,​6]benzodiazokin-​8-​carboxylic acid phenyl ester.

The composition is obtained from the aforesaid components selected from the aforesaid group and used according to the mentioned weight ratio ranges individually or in combinations.

Said invention also encompasses the use of said composition for suppressing the DNA gyrase and the manufacture thereof for this purpose.

**CLAIMS**

1. A composition for suppressing the DNA gyrase, said composition being obtained by the components selected from the group comprising 2,​3,​7,​10,​11,​12-​tetrachloro-​10R-​methoxy-​2,​4-​dimethyl-​1-​oxo-​9S,​12R-dimethoxy-​2H-​diindol[1,​2,​3-​fg:3’,​2’,​1’-​kl]pyrrolo[3,​4-​i][1,​6]octadien-​4-​carboxylic acid methyl ester, 2,​3,​9,​10,​11,​12-​hexahydro-​10R-​methoxy-​3,​3-​trimethyl-​7-​oxo-​9S,​12R-​epoxy-​4H-​tetrafluoro[1,​2,​3-​fg:3’,​2’,​1’-​kl]pyrrolo[3,​4-​i][1,​6]benzodiazokin-​8-​carboxylic acid phenyl ester that are used individually or in combinations.
2. A composition according to Claim 1 characterized in that it comprises 1-99% by weight 2,​3,​7,​10,​11,​12-​tetrachloro-​10R-​methoxy-​2,​4-​dimethyl-​1-​oxo-​9S,​12R-dimethoxy-​2H-​diindol[1,​2,​3-​fg:3’,​2’,​1’-​kl]pyrrolo[3,​4-​i][1,​6]octadien-​4-​carboxylic acid methyl ester.
3. A composition according to Claim 1 characterized in that it comprises 99-1% by weight 2,​3,​9,​10,​11,​12-​hexahydro-​10R-​methoxy-​3,​3-​trimethyl-​7-​oxo-​9S,​12R-​epoxy-​4H-​tetrafluoro[1,​2,​3-​fg:3’,​2’,​1’-​kl]pyrrolo[3,​4-​i][1,​6]benzodiazokin-​8-​carboxylic acid phenyl ester.
4. Use of the components according to Claims 1 to 3 obtained individually or in combinations selected from the group consisting of 2,​3,​7,​10,​11,​12-​tetrachloro-​10R-​methoxy-​2,​4-​dimethyl-​1-​oxo-​9S,​12R-dimethoxy-​2H-​diindol[1,​2,​3-​fg:3’,​2’,​1’-​kl]pyrrolo[3,​4-​i][1,​6]octadien-​4-​carboxylic acid methyl ester, 2,​3,​9,​10,​11,​12-​hexahydro-​10R-​methoxy-​3,​3-​trimethyl-​7-​oxo-​9S,​12R-​epoxy-​4H-​tetrafluoro[1,​2,​3-​fg:3’,​2’,​1’-​kl]pyrrolo[3,​4-​i][1,​6]benzodiazokin-​8-​carboxylic acid phenyl ester for the manufacture of a composition for suppressing the DNA gyrase.

**ABSTRACT**

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The invention relates to a composition comprising the anti-viral components for suppressing the DNA gyrase.

No figure.