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Nalidixic Acid Oral Suspension

[General Notices](#)

Action and use

Quinolone antibacterial.

DEFINITION

Nalidixic Acid Oral Suspension is a suspension of Nalidixic Acid in a suitable flavoured vehicle.

The oral suspension complies with the requirements stated under Oral Liquids and with the following requirements.

Content of nalidixic acid, $C_{12}H_{12}N_2O_3$

92.5 to 107.5% of the stated amount.

IDENTIFICATION

To 5 mL add 30 mL of [water](#) and 20 mL of [dilute sodium carbonate solution](#), mix and shake with two 30 mL quantities of [chloroform](#); discard the chloroform layers. Acidify the aqueous solution with 5M [hydrochloric acid](#), shake with 40 mL of [chloroform](#), wash the chloroform layer with 10 mL of [water](#) to which has been added 0.5 mL of 5M [hydrochloric acid](#), filter the chloroform layer through absorbent cotton and evaporate the filtrate to dryness. Dissolve the residue in sufficient 0.1M [sodium hydroxide](#) to produce a solution containing 0.0008% w/v of Nalidixic Acid. The [light absorption](#) of the solution, [Appendix II B](#), in the range 230 to 350 nm exhibits two maxima, at 258 nm and 334 nm.

ASSAY

Dilute a weighed quantity containing 0.12 g of Nalidixic Acid to 100 mL with 0.01M [sodium hydroxide](#), dilute 2 mL to 250 mL with 0.01M [sodium hydroxide](#) and measure the [absorbance](#) of the resulting solution at the maximum at 334 nm, [Appendix II B](#). Determine the [weight per mL](#) of the oral suspension, [Appendix V G](#), and calculate the content of $C_{12}H_{12}N_2O_3$, weight in volume, taking 494 as the value of A(1%, 1 cm) at the maximum at 334 nm.