Supporting Information

*In Vitro and In Vivo* Antiplasmodial Activity of Three Rwandan Medicinal Plants and Identification of Their Active Compounds
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A. Analysis of *T. mollis*

**HPLC method**

*Stationary phase*: ODS C18 column HYPERSIL 250/4.6 mm, (5 µm) (Alltech)

*Mobile phase*: Acetonitrile (ACN) and trifluoroacetic acid (TFA) 0.05% in gradient mode (see below)

*Flow rate*: 1 mL/min

*Injection volume*: 10 µL

*Detector*: UV diode array

*Gradient time*: 65 min

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<th>Time (min)</th>
<th>ACN (%)</th>
<th>TFA 0.05%</th>
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HPLC chromatogram

Fig. 1S HPLC chromatogram of the methanolic root bark extract of *T. mollis*. 
$^1$H nuclear magnetic resonance ($^1$H NMR) spectrum of ellagic acid in DMSO
B. Analysis of *Z. chalybeum*

**HPLC method**

**Stationary phase**: Pursuit 5 Diphenyl SS 250 x 4.6 mm (5 µm) (Varian)

**Mobile phase**: Acetonitrile (ACN) and trifluoroacetic acid (TFA) 0.05% in gradient mode (see below)

**Flow rate**: 1 mL/min

**Injection volume**: 10 µL

**Detector**: UV diode array

**Gradient time**: 56 min

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HPLC chromatogram of the methanolic root bark extract of *Z. chalybeum*. The sample was dissolved in methanolic and then analyzed using acetonitrile and 0.05% trifluoroacetic acid as the mobile phase and Pursuit 5 Diphenyl as the stationary phase. T: tembetarine, M: magnoflorine, H: hesperidine, S: skimmianine, F: γ fagarine, C: methyl candicine, SE: sesamine.
$^{1}$H nuclear magnetic resonance ($^{1}$H NMR) spectrum of nitidine in DMSO