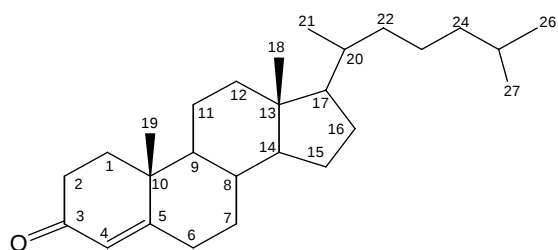


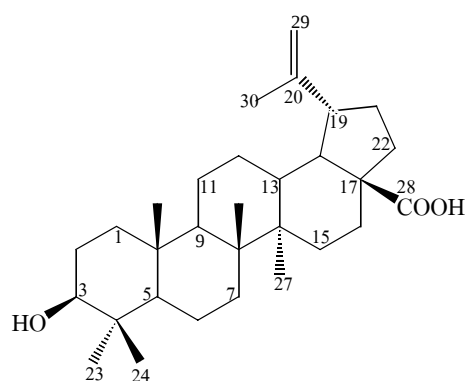
บทคัดย่อ

การแยกองค์ประกอบทางเคมีจากเปลือกลูกเนียง (*Archidendron jiringa*) สามารถแยกสารประกอบบริสุทธิ์ออกมาได้ 14 สาร ได้แก่ 4-cholesten-3-one (AJ1) stigmasterol (AJ2) β -sitosterol (AJ3) betulinic acid (AJ4) oleanolic acid (AJ5) deguelin (AJ6) lonchocarpusone (AJ7) rotenone (AJ8) elliptone (AJ9) rotenonone (AJ10) 6α , 12α -hydroxyelliptone (AJ11) 12α -hydroxyrotenone (AJ12) β -sitosterol glycoside (AJ13) และ β -stigmasterol glycoside (AJ14) โครงสร้างของสารเหล่านี้วิเคราะห์โดยข้อมูลทางสเปกโทรสโกปี UV IR NMR และเปรียบเทียบกับสารที่เคยมีรายงานแล้ว

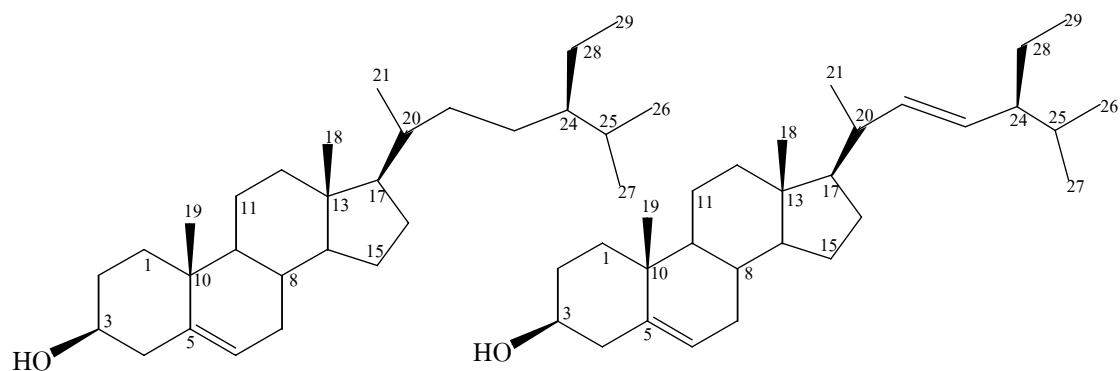
สารประกอบบริสุทธิ์ที่แยกได้นำไปทำการทดสอบฤทธิ์ทางชีวภาพพบว่า สาร AJ4 AJ5 AJ6 AJ8 AJ9 และ AJ12 มีฤทธิ์ต้านเชื้อวัณโรค (anti TB) ด้วยค่า MIC 25-100 $\mu\text{g/ml}$ ส่วนสาร AJ6 AJ8 AJ9 AJ10 AJ11 และ AJ12 มีฤทธิ์ต้านเซลล์มะเร็งช่องปาก (anti KB cell) ด้วยค่า ED_{50} 0.1-2.3 $\mu\text{g/ml}$



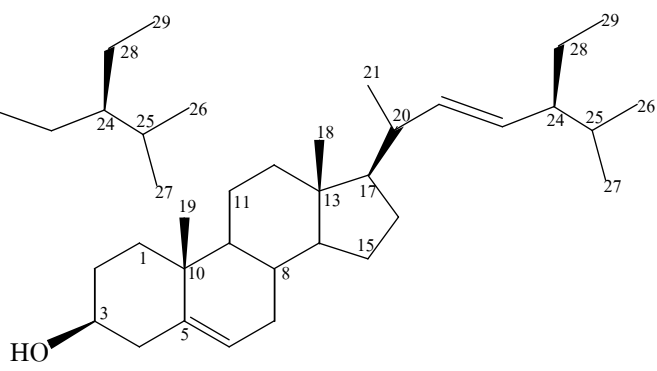
AJ1



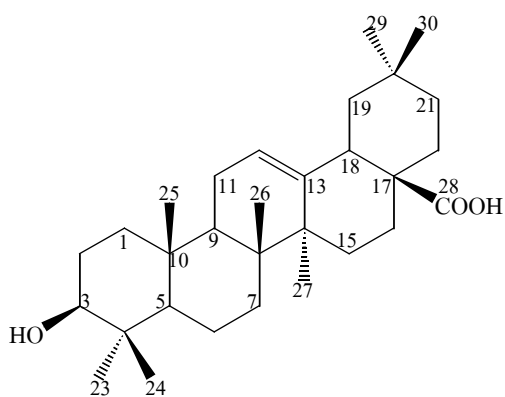
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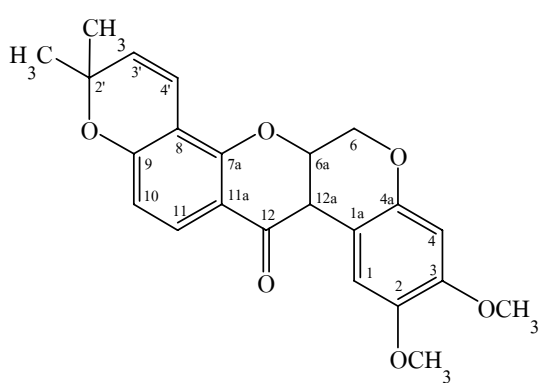
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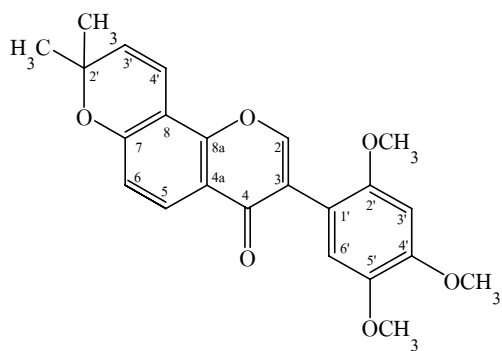
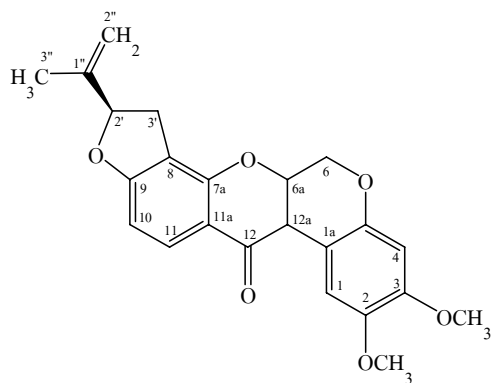
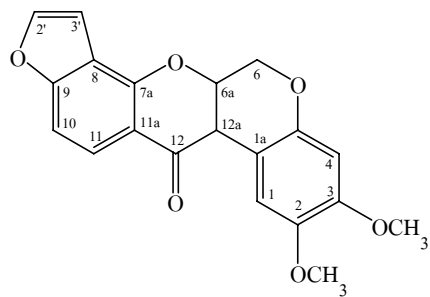
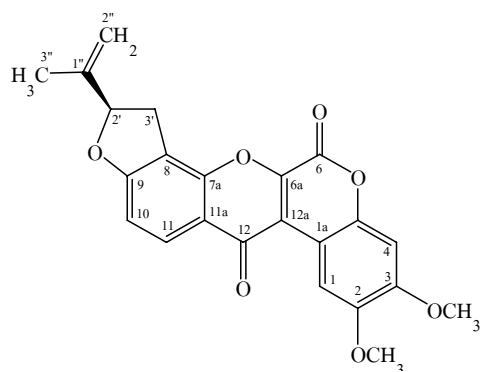
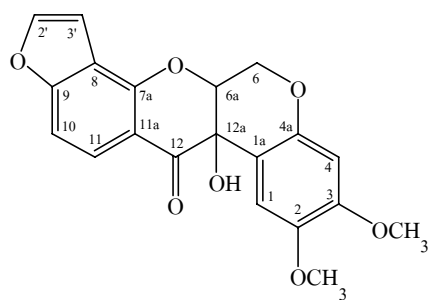
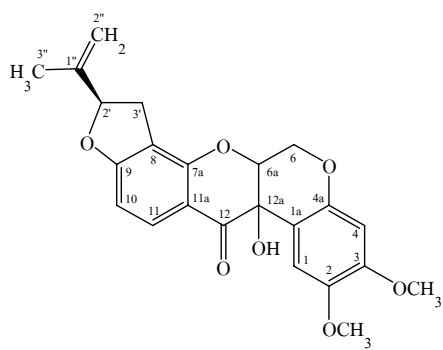
AJ3

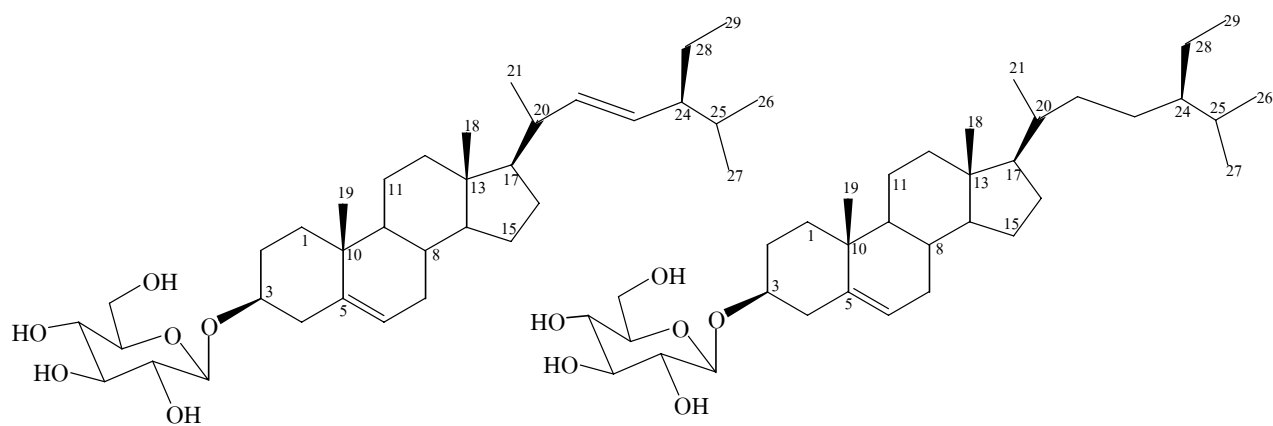


AJ5



AJ6

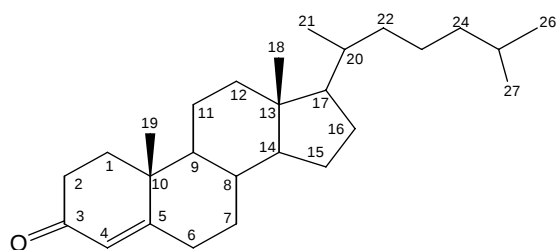
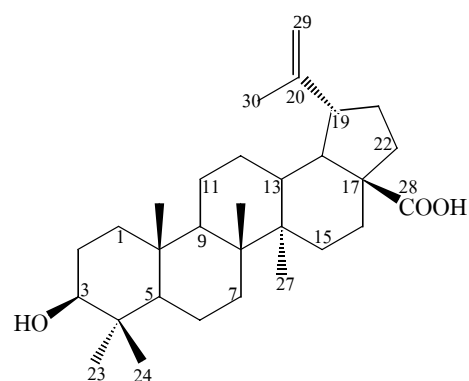
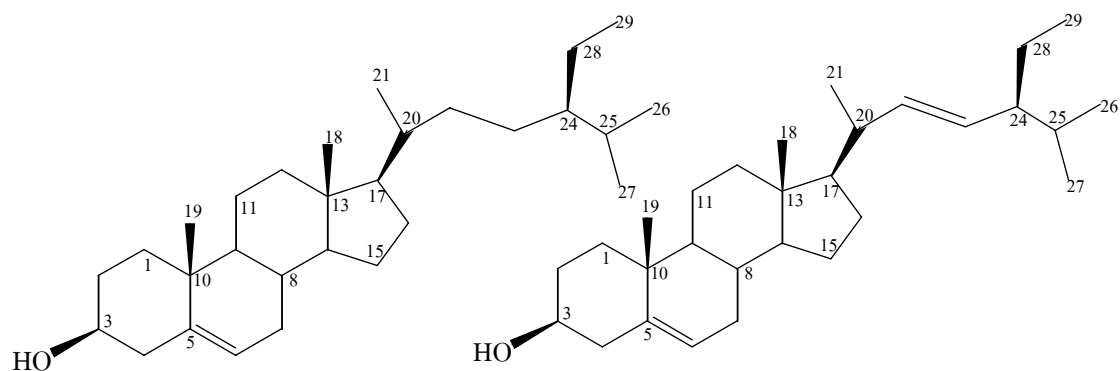
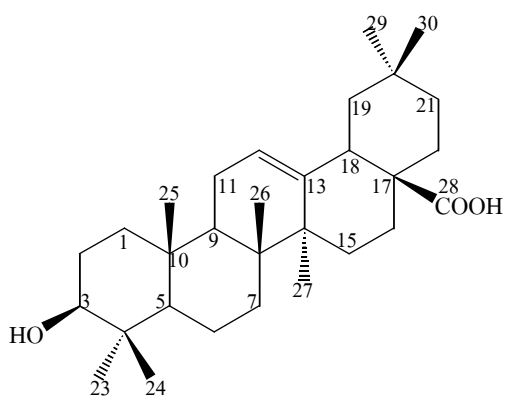
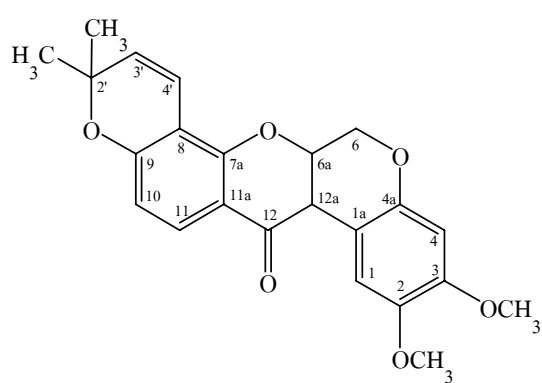
**AJ7****AJ8****AJ9****AJ10****AJ11****AJ12**

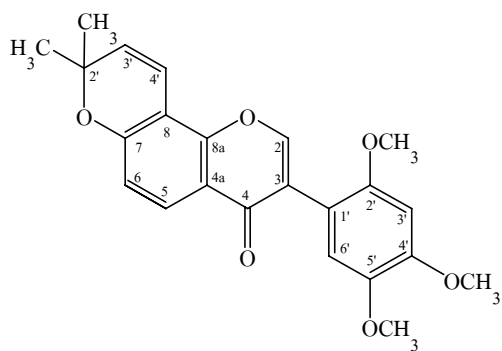
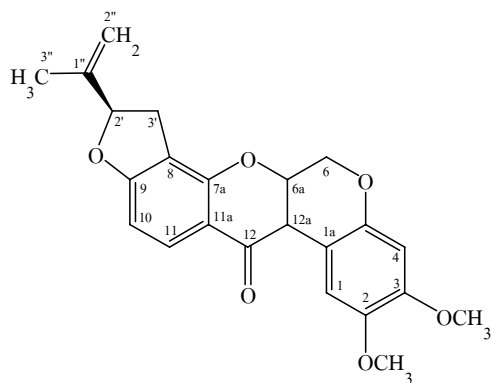
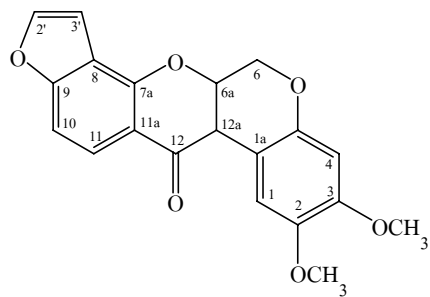
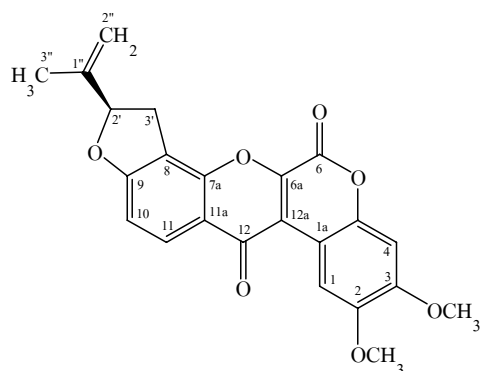
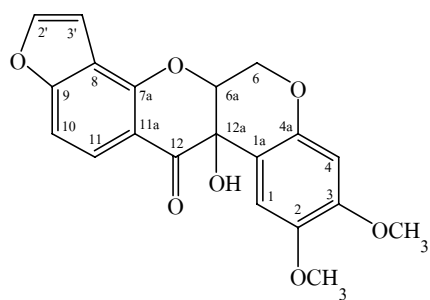
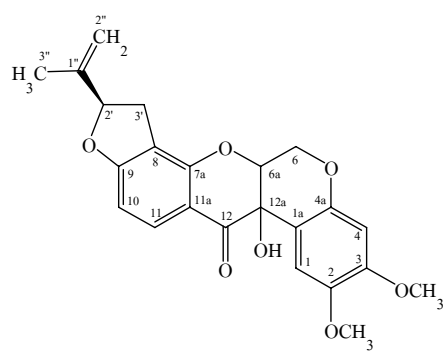
**AJ13****AJ14**

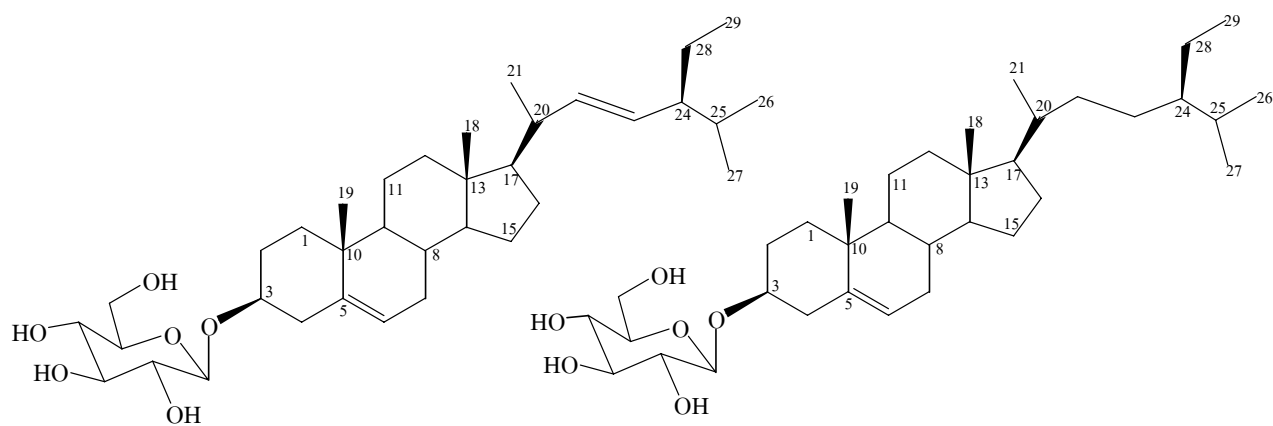
ABSTRACT

Isolation of the chemical constituents from the bean shells of *Archidendron jiringa* yielded fourteen known compounds: 4-cholesten-3-one (**AJ1**), stigmasterol (**AJ2**), β -sitosterol (**AJ3**), betulinic acid (**AJ4**), oleanolic acid (**AJ5**), deguelin (**AJ6**), lonchocarpusone (**AJ7**), rotenone (**AJ8**), elliptone (**AJ9**), rotenonone (**AJ10**), 6α , 12α - 12α -hydroxyelliptone (**AJ11**), 12α -hydroxyrotenone (**AJ12**), β -sitosterol glycoside (**AJ13**) and β -stigmasterol glycoside (**AJ14**). Their structures were elucidated on the basis of UV, IR and NMR spectroscopic data and comparison with reported value.

Some of the isolated compounds were screened for their biological activities. AJ4, AJ5, AJ6, AJ8, AJ9 and AJ12 showed antituberculous activity with the MIC of 25-100 $\mu\text{g/ml}$. AJ6, AJ8, AJ9, AJ10, AJ11 and AJ12 showed anti KB activity with the ED_{50} of 0.1-2.3 $\mu\text{g/ml}$.

**AJ1****AJ4****AJ2****AJ3****AJ5****AJ6**

**AJ7****AJ8****AJ9****AJ10****AJ11****AJ12**

**AJ13****AJ14**