Yaws, caused by *Treponema pallidum* subsp. *pertenue*, is an important public health problem in many tropical countries.¹ Like syphilis, the disease manifests in three stages; however, unlike syphilis, its route of transmission is non-genital skin-to-skin contact and not by sexual intercourse. Primary yaws manifests as either a papilloma or a chronic ulcer. Typically, ulcers are painless, with a raised edge and friable base (Figure 1). In secondary yaws, skin manifestations, involvement of the bones and joints including periostitis have been reported. Tertiary yaws develops in a minority of patients causing destructive lesions of the skin and soft tissues. Interest in yaws has been revived by the finding that azithromycin is a highly effective treatment of both primary and secondary yaws.² Clinical diagnosis alone of primary yaws is unreliable, but a point-of-care test has been shown to be of value.³ This test provides a result analogous to a *T. pallidum* particle agglutination assay (Figure 2, line 1) and a rapid plasma reagin (RPR) assay (Figure 2, line 2). In early infection, only the RPR may be positive. Diagnosis has been further complicated by the discovery that *Haemophilus ducreyi* may cause clinically similar ulcers.⁴ New polymerase chain reaction (PCR) assays have been developed for yaws.⁵ DNA suitable for can be extracted directly from swabs collected into dry tubes without the need for transport medium. Figure 3 demonstrates real-time PCR amplification curves of positive and negative controls and a clinical swab from a yaws lesion containing *T. pallidum pertenue* DNA. Both serological and molecular tests have a major role to play in the World Health Organization yaws eradication campaign.

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**Figure 3.** Quantitative polymerase chain reaction for yaws.