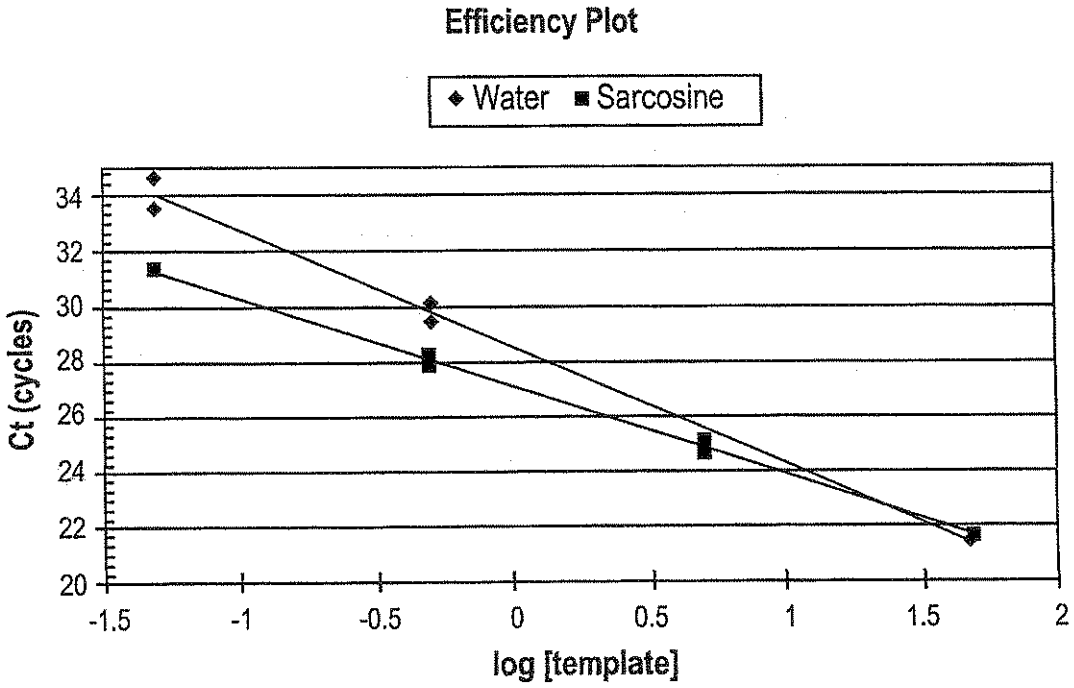
FIG. 1


Efficiency Plot
Water
Sarcosine
Ct (cycles)
34
32
30
28
26
24
22
20
-1.5
-1
-0.5
0
0.5
1
1.5
2
log [template]

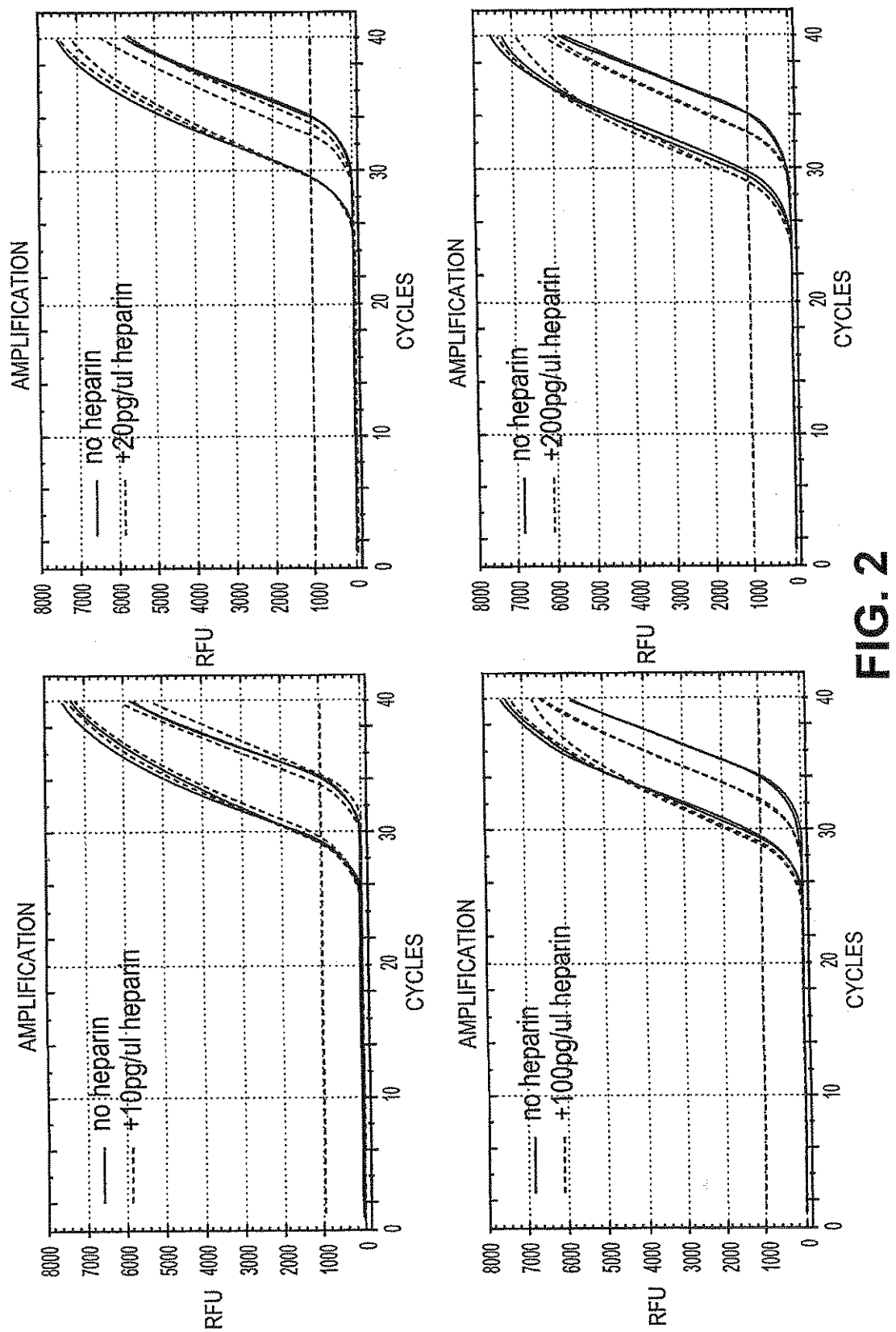

AMPLIFICATION
no heparin
+20pg/ul heparin
RFU
CYCLES
AMPLIFICATION
no heparin
+200pg/ul heparin
RFU
CYCLES
AMPLIFICATION
no heparin
+10pg/ul heparin
RFU
CYCLES
AMPLIFICATION
no heparin
+100pg/ul heparin
RFU
CYCLES

FIG. 2

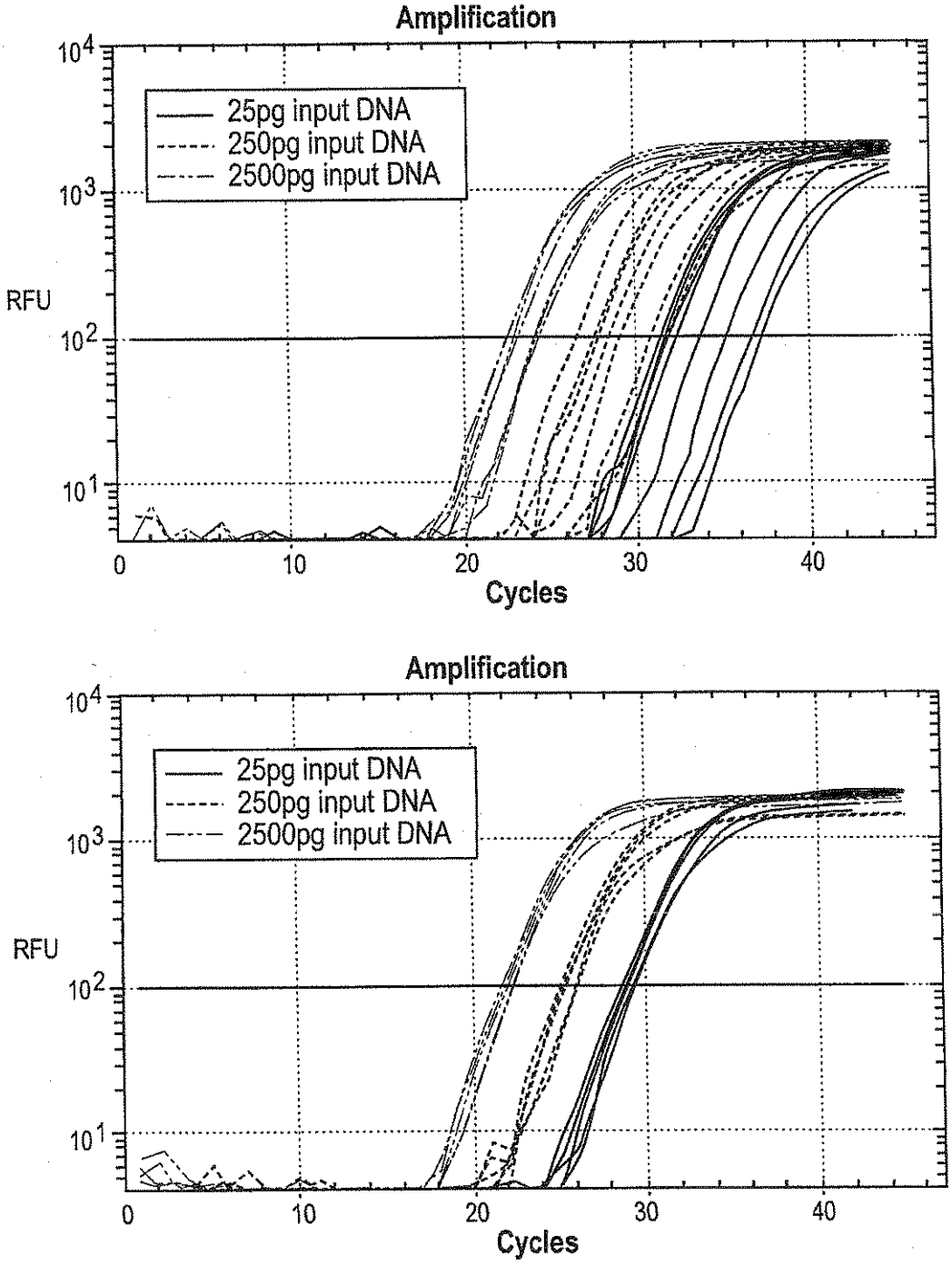

Amplification
25pg input DNA
250pg input DNA
2500pg input DNA
RFU
Cycles
Amplification
25pg input DNA
250pg input DNA
2500pg input DNA
RFU
Cycles

FIG. 3

Figure 4A

MILDADYITEEGKPVIRLFKKENGEFKIEHDRTFRPYIYALLKDDSKIEEVKKITAERH
GKIVRIVDAEKVEKKFLGRPITVWRLYFEHPQDVPTIREKIREHSAVVDIFEYDIPFAK
RYLIDKGLIPMEGDEELKLLAFAIATLYHEGEEFGKGPIIMISYADEEEAKVITWKKID
LPYVEVVSSEREMIKRFLKIIREKDPDIIITYNGDSFDLPYLAKRAEKLGIKLTIGRDGS
EPKMQRIGDMTAVEVKGRIHFDLYHVIRRTINLPTYTLEAVYEAIFGKPKEKVYADEI
AKAWETGEGLERVAKYSMEDAKATYELGKEFFPMEAQLSRLVGQPLWDVSRSSTG
NLVEWFLLRKAYERNELAPNKPDEREYERRLRESYAGGFVKEPEKGLWENIVSLDFR
ALYPSIIITHNVSPDTLNREGCRNYDVAPEVGHKFCKDFPGFIPSLLKRLLDERQKIKT
KMKASQDPIEKIMLDYRQRAIKILANSYYGYYGYAKARWYCKECAESVTAWGREYI
EFVWKELEEKFGFKVLYIDTDGLYATIPGGKSEEIKKKALEFVDYINAKLPGLLELEY
EGFYKRGFFVTKKKYALIDEEGKIITRGLEIVRRDWSEIAKETQARVLEAILKHGNVE
EAVRIVKEVTQKLSKYEIPPEKLAIYEQITRPLHEYKAIGPHVAVAKRLAAKGVKIKP
GMVIGYIVLRGDGPISNRAILAEEYDPRKHKYDAEYYIENQVLPAVLRILEGFGYRKE
DLRWQKTKQTGLTSWLNIKKSGTGGGGATVKFKYKGEEKEVDISKIKKVWRVGKM
ISFTYDEGGGKTGRGAVSEKDAPKELLQMLEKQKK*

Figure 4B

ATVKFKYKGEEKEVDISKIKKVWRVGKMISFTYDEGGGKTGRGAVSEKDAPKELLQ
MLEKQKK