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a . . . . . U . . . . .  
a . . . . . , a . . . . .  
a . . . . . a . . . . .  
a . . . . . [3].

**P a a c t c**

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( a . . . . . ), a . . . . .  
A . . . . . A . . . . .  
A . . . . . a . . . . .  
(ADA), a . . . . . I . . . . . A . . . . .  
a . . . . .

**B d at**

G a PK . . . . . A  
a . . . . . Q a a MS a a . . . . .  
a . . . . . I . . . . .  
a a (ELISA) a . . . . .  
a a (ECLIA), a a . . . . .  
a . . . . . A . . . . . B

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... a a a .E a - a  
... a a a a a a a  
... a a a a a a a [4].

**B d t b t**

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a a a A a a a a a  
A a a a a a a a a  
a a a a a a a a a  
H B a a a F a a ,  
MALDI-MSI  
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MALDI-MSI. a a a a  
a a a a a a A  
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a a a a a a a .M  
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a a a a a a a a a [5].

**Mat a a d M t d**

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PK a a a a a a  
Q a C a D I a  
I P a a a a a . B  
a a 78 a VRC01  
a (a 0 / 700 / ), a a  
VRC01 I G a a a PK-BAMA  
a a a . PK-BAMA a a a a ,  
a a a VRC01 a a a  
a a VRC01 a - PK a a a a a a  
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E a a a a a a a a  
a a (S a F S1). Ba a a , PK-  
BAMA a a a a a VRC01 I G A  
a a a .E a a a a PK BAMA a

