

•[žšŒEx zv •

^@l R g•Nê \u5%ã•(R g•NêN Qh•êR`u S R g•NêN € b@mKu5%ã
•(v,,kÔ[ùR g•

ÿ™t3Z ŷThg ^sÿ _• h...

(l_‰•w bš]P^ {,N N°l S;-bhÀšŒEyŃl_‰•bš]P 344000)

dX ‰•ŷîv,, x zvR)u(^@l R g•NêN u5%ã•(R g•NêNâSÊQh•êR`u S R g•NêMk[š^@% , ^@l/v,,vøQs`'N POP,^vcç`Qv]î
_ 。 e¹lÕ R R+u(OSMETECH OPTI CCA ^@l R g•NêN ^•zËAFT-300 u5%ã•(R g•NêSÊOLYMPUS AU2700 u S R g•Nê[ù 40
O<`£€ v,,R`—Y• ^@h7•ÛK⁺\Na⁺\Cl⁻mS^lv,,hÀmKùhÀmK~ÓgœPZ~B<_ [fY,‰•Â[BN € ~Ógœ]î_ g eàf>,,W,^vR g•SÿVà
~Ógœ^•zË AFT-300 N OLIMPUS AU2700 mK[šP<•œeàf>,,W`'î_ (P>0.05); ^•zË AFT-300 TOLYMPUS AU2700 u S R g•NêN\$
€ v,,mK[šP<NOSMETECH OPTI CCA ^@l R g•Nêv,,mK[šP<~ÓgœkÔQ⁺\K⁺\Na⁺g f>,,W`'î_ (P<0.01), Na⁺N:f>,,WXžšK⁺N:
f>,,W-MQ⁺ Cl⁻mS^lvR eàf>,,W`'î_ (P>0.05)。 ~Ó<° T N [žšŒ[ŷv,,hÀmK|û~B^”•Û^Le¹lÕ[f[ùkÔTŒ~ÓgœPO]î,ÀR\$e-Qv
N4^ŠSicŷS×`',NâOŸ<ÁhÀšŒ~Ógœv,,SikÔ`'

Qs•.Íÿ u5%ã•(^@l R g•Nê;u5%ã•(R g•NêQh•êR`u S R g•Nê

N-VpR |{S÷ R446.11+2,Q337,R169.39 e‡s.h <Æx A e‡zà•S÷ 1674-1129(2009)05-0501-02

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—•w@hÀšŒS;[fv,,SŃ\N T v,,hÀmKR g•|û~Bw(T N [žšŒ[ŷQús°]òN Sî••QMq6€ N T R g•|û~B[ù
T N `£€ h7g,•Û^LhÀmKQvhÀmK~Ógœv,,N •ô`Y,OU f/vîRMS;[fhÀšŒEuLQslèTŒ<`°v,,píp! Vàkd,Y,OU
[ùN T R g•|û~Bv,,hÀmK~Ógœ•Û^LR g•<ÄN⁺g,e‡ b@‰•cç<`v,,‘Íp! g,<ŌšŒc qg•ŽVýVý[¶N4^Š[žšŒ[ŷ
h QÆS YÔTX(NCCLS)v,, EP9-A2 e‡Nö‰•lBmK[š^@u5%ã•k!k!
u(g,[žšŒ[ŷ Olympus Au-2700 Qh•êR`u S R g•Nê, ^• zË AFT-300 u5%ã•(R g• NêTŒOSMETECH OPTI
CCA ^@l R g•Nê 3 yÍhÀmK|û~B [ù K⁺\Na⁺\Cl⁻~Ógœ NK•ôv,,]î_ •Û^Le¹lÕ[f[ùkÔSÊPO]î<ÄOçç<`N T
hÀmK|û~B•ô[ùT yÍhÀmK~yvîv,,mK[š~Ógœf/T&Qwg Sî^• 8~1 ‘ÍY mK[šN k!,^”W(2 \ eöQ...u(3 yÍhÀmK|û
kÔ`',NÎ€ N:N4^ŠR\$e-hÀšŒ~Ógœv,,SicŷS×`'cĐO>O~B[ù<âbyh g,R R+•Û^LmK[š,•P~ívŃmK\$Y),QqR g•
cn。

1 gPe™N e¹lÕ

1.1 gPe™

1.1.1 NêVhSÊ<ÖRB hÀmKû ~BN :Olympus Au-
2700 W<Qh•êR`u S R g•Nê b@u(<ÖRBOLYMPUS
Sÿ^Â<ÖRBSÊONP<[šh m² (byS÷R R+N66316;
66317), •(c§TÁN:,ñVýg •Sb@u N§—^P<TŒkc^8P<•(
c§ri (byS÷R R+N;526UN;528UN)。 hÀmK|û~BNŲ
VýOSMETECH OPTI CCA ^@l R g•Nê,b@u(<ÖRBN:

Sÿ^Â<Ö^&\$byS÷:914302)。hÀmK|û~BN^•zË AFT-
300 u5%ã•(R g•NêSÊ‘MYW<ÖRcTÁN:E09A400
o yûh!kcm²TŒE09B90 eœs‡h!kcm³)。

1.1.2 h7g, ‘Çu(b -bT|T8Q...yŃU uÂb?‘ÍuÇ`£
€ v,,R`• TŒ—Y• ^,ŲİY) 8 O<,•P~í 5 Y)。

1.2 e¹lÕ

1.2.1 c EP9-A2 e‡Nö‰•lBmK[š^@u5%ã•k!
[žšŒRmR g•|û~BwG— •Û^LšŲONP<(c§v,,mK[šN WG
W(c§,NâOŸ<Áb@g [ùkÔ[žšŒepcnQÆxnSî—`

1.2.2 h7g,Y t kİY)• SÖ 8 Ný`£€ h7g,,R R+u(
3 yÍhÀmK|û~Bc ~z^• 1~8 S÷•Û^LmK[š Q•c vøSÍ~z
Sî^• 8~1 ‘ÍY mK[šN k!,^”W(2 \ eöQ...u(3 yÍhÀmK|û
40 byk!,<°_UhÀmK~Ógœ[ùmK[š~Ógœ^L~B<_ [fR
g• 。

2 ~Ógœ

40 O<h g,v,, K⁺\Na⁺\Cl⁻mK[š~ÓgœSÊg Qs~B<_ [f
SÂep‰•Áh~h 3。

^h 1 ^•zË AFT-300 N Olympus Au-2700 W<Qh•êR`
u S R g•Nê[ùkÔ

~yvî (mmol/L)	^•zË AFT-300	Olympus Au-2700	t	P
K⁺	4.016±0.168	4.08±0.17	1.19	>0.05
Na⁺	134.88±0.75	135.63±1.43	0.20	>0.05
Cl⁻	101.67±2.18	102.63±2.15	0.11	>0.05

3 <`°

NÎg,[žšŒv,,^h 1 N-SîNâw R0^•zËu5%ã•(R g•Nê

O\€ {€Nÿ™t3Z Ys 36 \•,1991 ^tNŽl_‰•w Sku [fh!hÀšŒ
N N kŌN •ól_‰•w bš]P^ {,N S;-bhÀšŒEyŃ]âO\•óNŲ;{jhÀ
šŒ^ ,2005 ^tl_‰•S;[f-bS;u—N N kŌN

h 2 ^·zË AFT-300 N OSMETECH OPTI CCA [ùkÔ				
~yvî (mmol/L)	^·zË AFT-300	OSMETECH OPTI CCA	t	P
K ⁺	4.016±0.168	3.50±0.178	9.05	<0.01
Na ⁺	134.88±0.75	141.1±1.52	6.1	<0.01
Cl ⁻	101.67±2.18	102.64±2.07	0.12	>0.05

h 3 Olympus Au-2700 N OSMETECH OPTI CCA [ùkÔ				
~yvî (mmol/L)	Olympus Au-2700	OSMETECH OPTI CCA	t	P
K ⁺	4.08±0.17	3.50±0.178	10.18	<0.01
Na ⁺	135.63±1.43	141.1±1.52	5.26	<0.01
Cl ⁻	102.63±2.15	102.64±2.07	0.12	>0.05

N Olympus Au-2700 W<Qh•êR"u S R g•Nêb@mK, Na⁺, Cl⁻~Ógœ~f hÀšŒcDy:eàf>., W]î_ `(P>0.05), <ô f •ÛN\$yÍNêVhmK[K⁺, Na⁺, Cl⁻~Ógœ•fN •ô eàf>., W]î_ ``. € NÎ^h 2、^h 3 N-SiW R0^@l R g•Nêb@mK K⁺, Na⁺~ÓgœN ^· zËu5%ã(R g• NêSÊ Olympus Au-2700W<Qh•êR"u S R g•Nêb@mK~ÓgœWGg f>., W]î_ `'(P<0.01), QvN-Na⁺N:f>., WXžš, Q⁺N:f>., W-MON Cl⁻-mS^!R eàf>., W`']î_ (P>0.05)。 cçzvQvSÿV:žù NŽ^@K⁺ge<ô , ^@l R g•Nê K⁺POONSi€ýf/€•} b—QÝb@mK[š b~QúQv]î_ `` , NàkÔ•fmK[š~Ógœf/T&Qwg SîkÔ •ô , VàN:€•} f/N yÍ'x`'|~Y |Ö-4y»[PY €Zu5%ã•(, €ýY N ^@m²N-v,,-3y»[P~Ó,€•} N K⁺~ÓT _bb €• } ``¾ [2], ^vN €•} b—QÝ[ù^@m²N_g N [šv,.,z;Šæ Y , ^@m²QÝVúTÆR y»^@n v,.,Çz, N g bèR"b c\$S< ^@WWv,.,R;Q\Si€ý•ôO•~ç~Æ€P4xžÎ€• b •èR ``¾y»[P'Êe>•ÛQe^@h~ç~Æ€PQ...``¾y»[PmS^!~!N: ^@mFv,20 P), € ^@l VàO•u(€•} b—QÝç~Æ€P4xžV,., Qàs†\ NŽ^@n。 [ùNŽ^@Na⁺ge<ô , €•} •ÛyÍ'x`'|~Y |Ö , \^NŽN yÍ-4y»[PY €Zu5%ã;€•} N -3y»[Pv,.,vø [ùN²TÆR>O•k!NCa⁺>Mg²⁺>K⁺>Na⁺, Vàkdt <°N <2 , €•} b—QÝv,.,h gNa⁺mS^!P<WG^"N ẽMFg,k!~Ógœ

f>y: , Na⁺v,.,mK[šP<kÔ^@n P<šØÛSi€ýN €•} `` g, Ž«T+g •fšØv,.,Na⁺g Qs , •³Nåbµm^^@Và€•} • b v,., m^€ ^@l N-v,.,Na⁺[3]。 € Cl⁻v,.,eàf>., W`']î_ R Và Cl⁻g, Ž«W(~Æ€P Y kÔ•fz3[š* S×'xx±NãŒ" SÊ⁺mS^!v,., _qTÍ[4]。 b@Nå~üN b@•ž^@l R g•~ÓgœN-v,K⁺, Na⁺, Cl⁻~ÓgœTÆ^8u(hÀmKhÀmKNêVhv,.,hÀšŒ~Ógœ•Øf/g N [šv,.,]î_ 。

^@l R g•f/N4^ŠbçeQTÆvÑbæuÅN°v,.,N ~Ä'Í%•v,., u S c h , [fSiSiÍf uÅN°OSQ...`%`TÆo\W(v,.,'xx±^s ^aTÆl OSNæcbv,.,Q...s-XfS,OS(N4^Š<Êl»_SN,^@n K⁺, Na⁺, Cl⁻f/^8u(v,.,u S hÀmK~yvî。 W(T N [žšŒ[æ~Í ^8O ^"u(N T v,.,hÀmK|û~ß[ùQv•Û^LmK[šNåRMWúg, f/u(N u(y»[PNêb u S R g•Nê[ùQv•Û^LmK[š , -•w@ yÑb€v,.,ÛkeNåSÊhÀšŒb€g/v,.,SžšNåv,., ^@l R g• NêN_Qwg N†kdRÿ€Y4^ŠN N:e¹O;TÆQİ\ uÅN°v,.,uÛ ,æ(Qİ\ b½^@k!ep), W(PZ^@l R g•eQ N_O mK[K⁺, Na⁺, Cl⁻, Vàkd, b Ni^"u(N T v,.,hÀmK|û~ß[ùQv•Û^L NàkÔ•fmK[š~Ógœf/T&Qwg SîkÔ `` , NÎ€ N:N4^ŠR\$e-hÀšŒ~Ógœv,.,Sic¥S×^!cDO>Q•cn NàO;fôY}v,.,N:N4^Šg R; SÂ € e† s.

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(N c¥{, 500 ~u)

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