IMPHAL, ꯛꯅꯖꯅꯂꯨꯅꯗ 08, 2014, monday ꯄꯣꯏꯅꯨꯒꯤ 17ꯅꯤ ꯄꯥꯟꯕ, ꯅꯤꯡꯊꯧꯀꯥꯕ, ꯃꯥꯂꯤꯌꯥ ꯀꯨꯝꯁꯤꯡ 3412 ꯍꯨꯏꯌꯦꯟ ꯂꯥꯟꯄꯥꯎ 2 ꯈꯣꯔꯤꯂꯣꯜ HUEIYEN LANPAO

ꯅꯤꯌꯝ ꯆꯨꯝꯅ ꯑꯣꯛꯅꯥꯎ ꯌꯣꯛꯄ
ꯀꯥꯕ꯭ꯔꯪꯆꯥꯛ ꯄꯥꯝꯕꯤ ꯆꯥꯔꯥ ꯁꯦꯝꯗꯨꯅ ꯂꯤꯡꯊꯣꯛꯄ
ꯍꯧꯖꯤꯛꯀꯤ ꯃꯇꯝꯗ ꯁꯦꯟꯗꯥꯜ ꯂꯝꯕꯤ ꯑꯃ ꯑꯣꯏꯅ ꯌꯨꯃꯊꯣꯡ ꯈꯨꯗꯤꯡꯗ
ꯑꯣꯛ ꯂꯣꯏꯅꯔꯤ꯫ ꯑꯣꯛ ꯌꯣꯛꯄ ꯄꯅ ꯍꯩꯔꯕꯁꯨ ꯄꯣꯛꯄꯗ ꯉꯥꯏꯔꯤꯕ ꯑꯣꯛꯅꯥꯎ
ꯌꯣꯛꯄꯗꯗꯤ ꯁꯤꯕꯒꯤ ꯆꯥꯡꯁꯤ ꯑꯁꯨꯛꯀꯤ ꯃꯇꯤꯛ ꯁꯥꯡꯏ꯫ ꯑꯣꯛ ꯃꯄꯤꯅ
ꯃꯆꯥꯒ ꯁꯥꯒꯣꯟꯅ ꯂꯩꯃꯤꯟꯅꯕ ꯍꯩꯔꯒꯗꯤ ꯌꯥꯝꯅ ꯐꯩ ꯅꯠꯇ꯭ꯔꯒꯗꯤ ꯆꯦꯛꯁꯤꯟꯕ
ꯆꯪꯏ꯫
ꯑꯈꯣꯏꯒꯤ ꯂꯝ ꯑꯁꯤꯗꯗꯤ ꯆꯠꯅꯕꯤ ꯑꯃ ꯑꯣꯏꯅ ꯑꯣꯛ ꯃꯆꯥ ꯍꯦꯛ
ꯄꯣꯛꯄꯒ ꯃꯆꯥꯁꯤꯡ ꯑꯗꯨ ꯑꯃꯃꯝ ꯃꯄꯤꯅ ꯅꯟꯗꯅꯕ ꯊꯨꯃꯣꯛꯇ ꯍꯥꯞꯂꯒ
ꯑꯃꯨꯛ ꯃꯄꯤꯒꯤ ꯃꯅꯥꯛꯇ ꯄꯨꯁꯤꯜꯂꯒ ꯃꯈꯣꯝ ꯄꯤꯊꯛꯏ꯫ ꯑꯁꯨꯝꯅ ꯅꯨꯃꯤꯤ
3-4 ꯅꯤꯃꯨꯛ ꯇꯧꯔꯒ ꯃꯄꯤꯒꯤ ꯃꯅꯥꯛꯇ ꯑꯃꯨꯛ ꯊꯝꯃꯤ꯫ ꯃꯁꯤ ꯌꯥꯔꯤꯕꯃꯈꯩ
ꯇꯧꯕꯤꯔꯣꯏꯗꯕꯅꯤ꯫ ꯑꯣꯛꯀꯣꯟ ꯁꯥꯕ ꯃꯇꯝꯗ ꯃꯆꯥ ꯄꯣꯛꯀꯗꯧꯔꯤꯕ ꯃꯄꯤ
ꯑꯃꯒꯤ ꯃꯀꯣꯟꯗꯨꯒꯤ ꯃꯇꯥꯏꯒꯤ ꯀꯥꯆꯤꯟꯗ ꯃꯆꯥ ꯊꯝꯕ ꯁꯥꯕꯤꯒꯗꯕꯅꯤ꯫ ꯍꯥꯏꯔꯤꯕ
ꯎꯗꯍꯍꯛꯅꯗ ꯑꯁꯤ ꯄꯩꯁꯥ ꯆꯪꯗꯅ ꯋꯥꯅꯁꯨ ꯁꯥꯕ ꯌꯥꯏ꯫ ꯃꯁꯤꯗ ꯑꯣꯛꯅꯥꯎꯅꯗꯤ
ꯆꯪꯊꯣꯛ ꯆꯪꯁꯤꯟ ꯌꯥꯕꯅ ꯃꯄꯤꯒꯤ ꯃꯅꯥꯛꯇ ꯑꯗꯨꯝ ꯂꯩꯕ ꯉꯝꯒꯅꯤ꯫
ꯑꯣꯛ ꯃꯆꯥ ꯄꯣꯛꯄ ꯃꯇꯝꯗ ꯃꯆꯥ ꯌꯥꯃꯗ꯭ꯔꯕꯗ 4-16 ꯐꯥꯨꯕ ꯄꯣꯛꯏ꯫

ꯍꯥꯏꯔꯤꯕ ꯃꯆꯥꯁꯤꯡꯁꯤ ꯃꯔꯤ ꯃꯔꯤ ꯄꯣꯛꯄꯗꯤ ꯅꯠꯇꯦ꯫ ꯑꯗꯨꯅ ꯑꯣꯛꯅ ꯃꯆꯥ
ꯄꯣꯛꯄ ꯃꯇꯝꯗ ꯃꯥꯕꯨ ꯃꯆꯤꯟꯖꯥꯛ ꯄꯤꯖꯕꯤꯔꯒ ꯌꯥꯝꯅ ꯇꯣꯏꯅ ꯁꯦꯟꯅꯔꯤꯕ
ꯃꯤꯗꯨꯅ ꯃꯅꯥꯛꯇ ꯂꯩꯔꯒꯗꯤ ꯃꯄꯤꯅ ꯌꯥꯝꯅ TI ꯇꯞꯅ ꯃꯆꯥ ꯄꯣꯛꯄ ꯉꯝꯃꯤ꯫
ꯑꯁꯨꯝꯅ ꯃꯆꯥ ꯑꯍꯥꯟꯕ ꯍꯦꯛ ꯄꯣꯛꯄꯒ ꯇꯧꯕꯤꯒꯗꯕ ꯊꯧꯔꯝꯁꯤꯡꯗꯤ:-
1) ꯑꯅꯥꯟꯕ-ꯑꯀꯪꯕ ꯐꯤ ꯑꯃꯅ ꯃꯆꯥꯕꯨ ꯃꯅꯥꯇꯣꯟ ꯑꯃꯗꯤ ꯃꯆꯤꯟꯗ
ꯄꯛꯂꯛꯄ ꯑꯅꯞꯄ ꯃꯆꯨꯝ ꯑꯃꯁꯨꯡ ꯀꯨꯔꯥꯡꯕꯥꯟꯁꯤꯡ ꯑꯗꯨ ꯐꯤꯅ ꯐꯖꯅ
ꯇꯩꯊꯣꯛꯄꯤꯒꯗꯕꯅꯤ꯫ ꯀꯔꯤꯒꯨꯝꯕ ꯃꯇꯝꯗ ꯁꯣꯔ ꯍꯣꯟꯕ ꯉꯝꯗꯕ ꯇꯥꯔꯒꯗꯤ
ꯄꯥꯏꯞ ꯑꯃ ꯂꯧꯔꯒ ꯅꯥꯇꯣꯟ ꯃꯈꯨꯟꯗꯤ ꯃꯍꯤ ꯃꯅꯥꯏ ꯑꯗꯨ ꯆꯤꯡꯊꯣꯛꯄꯤꯒꯗꯕꯅꯤ꯫
ꯑꯗꯨꯒ ꯑꯁꯦꯡꯕ ꯅꯨꯡꯁꯤꯠ, ꯃꯅꯥꯇꯣꯟ ꯃꯈꯨꯟꯗ ꯀꯥꯞꯁꯤꯟꯕꯒ ꯂꯣꯏꯅꯅ ꯑꯣꯛꯅꯥꯎ
ꯑꯗꯨꯒꯤ ꯃꯊꯕꯥꯛꯇ ꯈꯨꯠꯁꯥꯅ ꯍꯪꯒꯠ ꯍꯟꯗꯥ ꯅꯝꯗꯨꯅ ꯄ꯭ꯔꯦꯁꯔ ꯄꯤꯔꯒ ꯁ꯭ꯣꯔ
ꯍꯣꯜꯍꯟꯅꯕ ꯍꯣꯠꯅꯒꯗꯕꯅꯤ꯫ ꯑꯁꯨꯝꯅ ꯃꯄꯨꯡ ꯐꯥꯅ ꯁꯣꯔ ꯍꯣꯟꯗ꯭ꯔꯤꯕ ꯐꯥꯎꯕ
ꯍꯪꯒꯠ ꯍꯟꯗꯥ ꯁꯥꯟꯅꯕꯤꯒꯗꯕꯅꯤ꯫
2) ꯁꯣꯔ ꯅꯤꯡꯊꯤꯅ ꯍꯣꯜꯂꯕ ꯇꯨꯡꯗ ꯈꯣꯏꯔꯤ ꯀꯛꯄꯤꯒꯗꯕꯅꯤ꯫ ꯈꯣꯏꯔꯤ
ꯀꯛꯄ ꯃꯇꯝꯗ ꯇꯤꯡꯛꯆꯔ ꯑꯥꯏꯑꯣꯗꯤꯟ-ꯗ ꯂꯨꯞꯂꯕ ꯂꯪꯅꯥ ꯃꯕꯨꯛꯇꯒꯤ
ꯏꯟꯆꯤ ꯃꯈꯥꯏꯔꯣꯝ ꯆꯠꯊꯣꯛꯂꯒ ꯀꯤꯁꯤ ꯑꯃ ꯀꯤꯕꯤꯒꯅꯤ꯫ ꯃꯁꯤꯒꯤ ꯃꯇꯨꯡꯗ
ꯑꯃꯨꯛ ꯈꯔ ꯆꯠꯊꯣꯛꯄꯤꯔꯒ ꯍꯥꯏꯗꯤ ꯏꯟꯆꯤ ꯑꯅꯤꯔꯣꯝ ꯆꯠꯊꯣꯔꯛꯂꯒ
ꯑꯅꯤꯁꯨꯕ ꯀꯤꯁꯤ ꯑꯃ ꯑꯃꯨꯛ ꯀꯤꯁꯤꯟꯕꯤꯔꯒ ꯀꯤꯁꯤ ꯑꯅꯤꯒꯤ ꯃꯌꯥꯏꯗ
ꯀꯥꯇꯤ ꯅꯠꯇ꯭ꯔꯒ ꯕ꯭ꯂꯦꯗ ꯑꯃꯅ ꯈꯣꯏꯔꯤ ꯑꯗꯨ ꯀꯛꯊꯠꯄꯤꯔꯒ ꯀꯛꯐꯝ
ꯃꯇꯣꯟꯗꯨꯗ ꯇꯤꯡꯛꯆꯔ ꯑꯥꯏꯗꯤꯟ ꯇꯩꯁꯤꯟꯕꯤꯔꯒ ꯊꯝꯕꯒꯗꯕꯅꯤ꯫
3) ꯃꯊꯪꯗ ꯃꯌꯥ ꯑꯃꯨꯛ ꯀꯛꯊꯠꯄꯤꯒꯗꯕꯅꯤ꯫ ꯑꯍꯛꯅꯥꯎꯁꯤꯡꯁꯤ
ꯄꯣꯛꯄ ꯃꯇꯝꯗ ꯃꯌꯥ 8 ꯍꯧꯔꯒ ꯄꯣꯛꯂꯛꯏ꯫ ꯃꯊꯛꯇ 4 ꯃꯈꯥꯗ 4
ꯍꯥꯏꯔꯤꯕ ꯃꯌꯥ ꯑꯁꯤ ꯌꯥꯝꯅ ꯇꯨꯝꯕ ꯃꯔꯝꯅ ꯞꯅꯅꯛꯦꯅ Teeth ꯍꯥꯏꯅꯁꯨ ꯈꯪꯅꯩ꯫
ꯃꯌꯥ ꯀꯛꯄꯗ ꯈ꯭ꯥꯏꯗꯒꯤ ꯁꯝꯕ ꯑꯈꯣꯏꯒꯤ ꯌꯨꯝ ꯌꯨꯝ ꯈꯗꯨꯗꯤꯡꯗꯁꯨ ꯂꯩꯔꯤꯕ
ꯅꯦꯏꯜ ꯀꯇꯔꯅꯁꯨ ꯀꯛꯄ ꯌꯥꯏ꯫ ꯃꯁꯤ ꯀꯛꯄ ꯃꯇꯝꯗ ꯃꯌꯥꯏ ꯑꯣꯏꯔꯞꯅ
ꯆꯞꯂꯒ ꯀꯛꯊꯠꯀꯗꯕꯅꯤ꯫ ꯀꯔꯤꯒꯨꯝꯕꯗ ꯏ ꯊꯣꯛꯄ ꯇꯥꯔꯒꯁꯨ ꯂꯁꯤꯡꯅ
ꯅꯝꯁꯤꯟꯗꯨꯅ ꯉꯥꯏꯍꯥꯛꯇꯪ ꯊꯝꯕꯤꯒꯗꯕꯅꯤ꯫ ꯃꯄꯤꯗ ꯀꯔꯤꯁꯨ ꯑꯀꯥꯏꯕ
ꯂꯩꯇꯦ꯫ ꯃꯇꯣꯝꯇ ꯑꯗꯨꯝ ꯐꯖꯈꯤꯒꯅꯤ꯫ ꯆꯦꯛꯁꯤꯟꯕꯤꯒꯗꯕ ꯑꯃꯅ ꯃꯌꯥ
ꯀꯥꯕ꯭ꯔꯪꯆꯥꯛ ꯄꯥꯝꯕꯤ ꯑꯁꯤ ꯃꯇꯝ ꯁꯥꯡꯅ ꯍꯧꯕ ꯉꯝꯃꯤ
(perennial) ꯇꯣꯉꯥꯟ ꯇꯣꯉꯥꯟꯕ ꯂꯩꯕꯥꯛ ꯂꯩꯍꯥꯎꯗ, ꯑꯏꯪ ꯑꯁꯥꯗ, ꯅꯣꯡꯖꯨ
ꯅꯨꯡꯁꯥꯗꯁꯨ, ꯅꯤꯡꯊꯤꯅ ꯍꯧꯕ ZAT! ꯇꯧꯕꯗꯕꯨ ꯑꯩꯈꯣꯏꯅ ꯄꯥꯝꯕꯤ ꯑꯁꯤꯒꯤ
ꯃꯅꯥꯗꯨꯅ ꯇꯤꯜꯒꯤ ꯃꯆꯤꯟꯖꯥꯛ ꯑꯣꯏꯅ ꯁꯤꯖꯤꯟꯅꯒꯗꯕꯅꯤꯅ ꯊꯥꯔꯤꯕ ꯄꯥꯝꯕꯤ
ꯑꯗꯨꯒꯤ ꯙꯥꯔꯥ (variety) ꯑꯃꯗꯤ ꯄꯥꯝꯕꯤ ꯊꯥꯕꯔꯤꯕꯗꯨꯒꯤ (cultivation)
ꯃꯑꯣꯡꯒꯤ ꯃꯇꯨꯡꯁꯨ ꯏꯜꯂꯤ꯫
ꯀꯥꯕ꯭ꯔꯪꯆꯥꯛ ꯄꯥꯝꯕꯤ ꯑꯃꯁꯨꯡ ꯏꯪꯈꯣꯜꯗ ꯅꯤꯌꯝ ꯆꯨꯝꯅ ꯑꯃꯗ ꯑꯐꯕ
ꯃꯈꯜꯒꯤ ꯚꯦꯔꯥꯏꯇꯤ (High yeilding) ꯊꯥꯕꯤꯈ꯭ꯔꯕꯗꯤ ꯌꯥꯝꯗ꯭ꯔꯕꯗ
ꯆꯍꯤ 15 ꯗꯒꯤ 20 ꯐꯥꯎꯕ ꯃꯅꯥꯒꯤ ꯄꯣꯠꯊꯣꯛ ꯍꯟꯊꯍꯟꯗꯅ ꯍꯦꯛꯄ \

ꯥꯏ꯫ ꯇꯧꯕꯇꯕꯨ ꯄꯥꯝꯕꯤꯒꯤ ꯗꯔꯀꯥꯔ ꯑꯣꯏꯕ ꯃꯆꯤꯟꯖꯥꯛꯇꯤ ꯅꯤꯌꯝ ꯆꯨꯝꯅ
ꯍꯥꯞꯄꯤ ꯗꯔꯀꯥꯔ ꯑꯣꯏ ꯃꯔꯝꯗꯤ, ꯂꯪꯊꯣꯛ ꯇꯤꯜꯅ ꯃꯍꯨꯝ ꯁꯦꯝꯂꯛꯄꯗ
(ꯈꯡꯦꯥ gland) ꯁꯤꯜꯛ ꯒ꯭ꯂꯥꯟꯗ ꯑꯁꯤ ꯀꯥꯕ꯭ꯔꯪꯆꯥꯛ ꯃꯅꯥꯗ ꯌꯥꯎꯔꯤꯕ
ꯄ꯭ꯔꯣꯇꯤꯟ ꯑꯗꯨꯗꯒꯤ ꯐꯪꯂꯛꯄ ꯑꯣꯏꯕꯅ ꯑꯐꯕ ꯄꯥꯝꯕꯤꯒꯤ ꯑꯐꯕ ꯃꯅꯥ
ꯍꯥꯏꯕꯗꯤ ꯄ꯭ꯔꯣꯇꯤꯟ, ꯀꯥꯔꯕꯣꯍꯥꯏꯗ꯭ꯔꯦꯠ, ꯏꯁꯤꯡꯒꯤ ꯆꯥꯡ ꯌꯥꯝꯅ ꯌꯥꯎꯕ
(quality ꯦꯅꯃꯆꯅꯀ) ꯐꯖꯕ ꯑꯆꯧꯕ ꯃꯅꯥ ꯌꯥꯝꯅ ꯄꯥꯟꯕ ꯄꯥꯝꯕꯤ, ꯊꯨꯅ ꯆꯥꯎꯕ
ꯑꯃꯗꯤ ꯃꯁꯥ ꯌꯥꯝꯅ ꯄꯥꯟꯕ ꯑꯃꯗꯤ ꯃꯁꯥ ꯌꯥꯝꯅ ꯄꯥꯟꯕ ꯄꯥꯝꯕꯤꯒꯤ ꯙꯥꯔꯥ
ꯈꯟꯗꯨꯅ ꯊꯥꯕꯤꯅꯕ ꯍꯣꯠꯅꯕꯤꯒꯗꯕꯅꯤ꯫
ꯑꯐꯕ ꯙꯥꯔꯥꯁꯤꯡ : ꯆ1

, ꯁ2

, ꯈ36, ꯈ54, ꯈ1

, ꯏꯗ10 & VC-259 ꯅꯆꯤꯡꯕ
ꯃꯃꯤꯡ ꯄꯟꯕ ꯌꯥꯏ꯫
ꯀꯥꯕ꯭ꯔꯪꯆꯥꯛ ꯄꯥꯝꯕꯤꯒꯤ ꯆꯥꯔꯥ ꯁꯟꯗꯣꯛꯄ :- ꯊꯧꯑꯣꯡ ꯑꯅꯤꯗ ꯙꯥꯔꯥ
eGfDjx vkjk (plant propagation) KErOdT!
1) ꯄꯥꯝꯕꯤꯗꯒꯤ ꯃꯔꯨ (ꯀꯅꯅꯛꯀ) ꯂꯧꯗꯨꯅ ꯑꯃꯗꯤ
2) ꯀꯣꯂꯣꯝ (cutting) ꯁꯦꯝꯗꯨꯅ ꯆꯥꯔꯥ ꯁꯦꯝꯕ
ꯆꯥꯔꯥ ꯁꯦꯝꯕꯒꯤ ꯃꯑꯣ: ꯌꯥꯝꯅꯁꯨ ꯊꯨꯕ, ꯌꯥꯝꯅꯁꯨ ꯂꯥꯏꯕ ꯑꯁꯦꯡꯕ ꯃꯁꯛ
ꯈꯪꯂꯕ ꯄꯥꯝꯕꯤꯗꯨꯒꯤ ꯄꯥꯔꯤ ꯄꯨꯔꯤꯒꯤ ꯃꯒꯨꯟ ꯌꯥꯎꯔꯕ ꯄꯥꯝꯕꯤꯁꯤꯡꯗꯨ ꯀꯣꯂꯣꯝ
ꯁꯦꯝꯕꯤꯗꯨꯅ ꯆꯥꯔꯥ ꯁꯟꯗꯣꯛꯄ ꯌꯥꯏ꯫ ꯌꯥꯝꯗ꯭ꯔꯕꯗ ꯊꯥ 6 ꯇꯒꯤ 8 ꯐꯥꯎꯕꯒꯤ
ꯃꯅꯨꯡꯗ ꯂꯩꯕ ꯈꯨꯗꯣꯝꯕꯤꯃꯨꯛ ꯆꯥꯎꯕ, ꯃꯃꯤꯠ (buds) 3-4 ꯌꯥꯎꯕ ꯃꯁꯥ
ꯃꯇꯦꯛ-ꯃꯇꯦꯛ ꯀꯛꯂꯒ ꯀꯣꯂꯣꯝꯁꯤꯡ ꯁꯦꯝꯕꯤꯒꯅꯤ꯫ ꯀꯛꯄ ꯃꯇꯝꯗ
ꯌꯥꯔꯤꯕꯃꯈꯩ ꯃꯃꯤꯠ ꯀꯥꯏꯍꯟꯕꯤꯔꯣꯏꯗꯕꯅꯤ꯫ ꯁꯦꯃꯤ 15-18 ꯐꯥꯎꯕ ꯁꯥꯡꯅ
ꯀꯛꯄꯤꯒꯗꯕꯅꯤ꯫ ꯌꯥꯝꯅ ꯐꯕꯗꯤ ꯀꯣꯂꯣꯝꯗꯨꯒꯤ ꯃꯊꯛ ꯊꯪꯕ ꯁꯔꯨꯛꯇꯨ ꯅꯥꯟꯅ
(ꯆꯨꯝꯅ) ꯀꯛꯄꯤꯒꯅꯤ꯫ ꯐꯖꯅ ꯆꯥꯝꯊꯣꯛꯂꯕ ꯕꯣꯔꯥ ꯑꯃꯅ ꯌꯣꯝꯁꯤꯜꯂꯒ
ꯀꯛꯄ ꯃꯇꯝꯗ ꯌꯥꯈꯣꯡ ꯅꯣꯝꯗꯅꯕ ꯑꯊꯧꯕ ꯃꯆꯤꯟ ꯂꯩꯍꯧꯗꯅꯕ ꯑꯃꯗꯤ ꯌꯥꯔꯤ
ꯁꯣꯛꯇꯅꯕ ꯆꯦꯛꯁꯤꯟꯕꯤꯒꯗꯕꯅꯤ꯫ ꯑꯣꯛꯅꯥꯎꯁꯤꯡꯒꯤ ꯃꯌꯥ ꯀꯛꯊꯠꯄꯒꯤ
ꯃꯔꯝꯗꯤ ꯃꯈꯣꯝ ꯊꯛꯄ ꯃꯇꯝꯗ ꯃꯄꯤꯒꯤ ꯈꯣꯝꯖꯤꯟꯗ ꯊꯧꯕ ꯃꯌꯥꯁꯤꯡꯅ
ꯆꯤꯛꯊꯠꯄꯗꯒꯤ ꯁꯣꯛꯄ ꯑꯃꯁꯨꯡ ꯃꯈꯣꯏ ꯃꯁꯦꯜ ꯂꯥꯛꯅꯕꯗꯒꯤ ꯃꯃꯤꯠ
ꯃꯃꯥꯏꯗ ꯑꯁꯣꯛꯄ ꯀꯌꯥ ꯊꯣꯛꯀꯗꯕꯗꯒꯤ ꯀꯟꯕ ꯉꯝꯃꯤ꯫
4) ꯃꯌꯥ ꯀꯛꯂꯕ ꯃꯇꯨꯡꯗ ꯑꯣꯛꯖꯥꯎꯁꯤꯡꯗꯨ ꯃꯄꯤꯒꯤ ꯃꯅꯥꯛꯇ
ꯀꯄꯨꯁꯤꯜꯂꯒ SOA ꯄꯤꯊꯛꯄ ꯇꯝꯕꯤꯒꯅꯤ꯫ ꯑꯣꯛ ꯂꯣꯏꯕ ꯑꯌꯥꯝꯕꯅ ꯃꯆꯥ
ꯃꯌꯥꯝ ꯄꯣꯛꯄ ꯂꯣꯏꯔꯒ ꯃꯈꯣꯝ ꯄꯤꯊꯛꯏ, ꯃꯁꯤ ꯇꯧꯕꯤꯔꯣꯏꯗꯕꯅꯤ꯫ ꯑꯣꯛ
ꯃꯆꯥ ꯑꯃ ꯍꯦꯛ ꯄꯣꯛꯄꯒ ꯍꯥꯏꯔꯤꯕ ꯃꯊꯛꯀꯤ ꯅꯤꯌꯝ ꯑꯁꯤ ꯄꯥꯡꯊꯣꯛꯄ
ꯂꯣꯏꯔꯒ ꯌꯥꯝꯅ ꯊꯨꯅ ꯃꯈꯣꯝ ꯄꯤꯊꯛꯄꯤꯒꯗꯕꯅꯤ ꯃꯁꯤꯅ ꯍꯣꯔꯃꯣꯟꯒꯤ ꯑꯍꯣꯡꯕ
ꯂꯥꯛꯇꯨꯅ ꯌꯥꯝꯅ ꯊꯨꯅ ꯃꯆꯥ ꯃꯈꯥ ꯇꯥꯔꯛꯄ ꯑꯃꯗꯤ ꯅꯥꯎꯐꯝ ꯊꯨꯅ ꯇꯥꯕ ꯉꯝꯃꯤ꯫

5) ꯃꯕꯨꯛ ꯊꯜꯂꯕ ꯑꯣꯛꯅꯥꯎꯁꯤꯡꯕꯨ ꯎꯗꯍꯍꯛꯅꯗ ꯗ ꯆꯔꯨ ꯐꯖꯅ ꯊꯥꯕꯤꯔꯒ
ꯌꯥꯝꯅ ꯂꯨꯝꯅ ꯊꯝꯕꯤꯒꯗꯕꯅꯤ꯫ ꯅꯣꯡꯃꯗ ꯌꯥꯝꯗ꯭ꯔꯕꯗ ꯑꯣꯛꯅꯥꯎꯁꯤꯡꯗꯨ 6-7 ꯂꯛ
ꯃꯄꯤꯒꯤ SOA ꯄꯤꯊꯛꯄꯤꯒꯅꯤ꯫ ꯃꯆꯥ ꯄꯣꯛꯄꯗꯒꯤ ꯅꯨꯃꯤꯠ ꯍꯨꯝꯤ ꯐꯥꯎꯕꯗꯤ
ꯃꯈꯣꯝꯗ ꯌꯥꯎꯕ ꯀꯣꯜꯣꯁꯇ꯭ꯔꯝꯅ ꯅꯧꯔꯤꯕ ꯑꯣꯛ ꯃꯆꯥꯁꯤꯡꯗ ꯂꯥꯏꯅꯥ ꯇꯤꯜꯅꯥ
ꯉꯥꯛꯊꯣꯛꯅꯕ ꯑꯦꯟꯇꯤꯕꯣꯗꯤꯖ ꯃꯁꯥ ꯃꯎ ꯐꯍꯟꯅꯕ ꯑꯐꯕ ꯃꯈꯜꯒꯤ protein,
sugar, fat, mineral [aKbi vitamin Kgi afgd vke WIoMmg!
ꯃꯁꯤꯗ ꯅꯠꯇꯅ colostrum ꯅ ꯄꯣꯛꯄꯗ ꯉꯥꯏꯔꯤꯕ ꯑꯣꯛꯅꯥꯎꯁꯤꯡꯅ

Meconuine ꯃꯃꯥꯒꯤ ꯄꯨꯛꯅꯨꯡꯗ ꯂꯩꯔꯤꯉꯩ ꯃꯇꯝꯗꯒꯤ ꯌꯥꯎꯔꯛꯄ
ꯑꯣꯛꯅꯥꯎꯁꯤꯡꯒꯤ ꯃꯊꯤ ꯐꯥꯏꯗꯣꯛꯍꯟꯕꯗ ꯃꯇꯦꯡ ꯄꯥꯡꯏ꯫ ꯃꯔꯨ ꯑꯣꯏꯅ
ꯄꯣꯛꯄꯗꯤ ꯄꯨꯡ 24 ꯐꯥꯎꯕꯗ ꯃꯄꯤꯒꯤ ꯃꯈꯣꯝ ꯐꯪꯍꯟꯅꯕ ꯍꯣꯠꯅꯕꯤꯒꯗꯕꯅꯤ꯫
6) ꯀꯔꯤꯒꯨꯝꯕꯗ ꯄꯣꯛꯂꯛꯄ ꯃꯆꯥꯒꯤ ꯃꯁꯤꯡꯅ ꯈꯣꯝꯖꯤꯟ ꯃꯁꯤꯡꯗꯒꯤ
ꯍꯦꯜꯂꯕ ꯅꯠꯇ꯭ꯔꯒ ꯃꯄꯤ ꯁꯤꯗꯣꯛꯈ꯭ꯔꯕ ꯅꯠꯇ꯭ꯔꯒ ꯃꯔꯝ ꯈꯔꯗꯒꯤ ꯃꯄꯤꯒꯤ
ꯃꯈꯣꯝ ꯊꯣꯛꯈꯤꯗ꯭ꯔꯕꯗꯤ ꯑꯍꯦꯟꯕ ꯃꯆꯥ ꯅꯠꯇ꯭ꯔꯒ ꯃꯄꯤ ꯂꯩꯇ꯭ꯔꯕ ꯑꯣꯛꯅꯥꯨꯁꯤꯡ
ꯑꯗꯨ ꯃꯆꯥꯒꯤ ꯁꯥꯏꯖ ꯍꯥꯏꯐꯦꯠ ꯃꯥꯟꯅꯕ ꯑꯇꯣꯞꯄ ꯃꯄꯤ ꯑꯃꯗ ꯊꯥꯖꯤꯟꯗꯨꯅ
ꯌꯣꯛꯍꯟꯒꯅꯤ꯫ ꯃꯁꯤꯒꯤ ꯈꯨꯗꯣꯡꯆꯥꯕ ꯐꯪꯗ꯭ꯔꯕꯗꯤ ꯃꯄꯤꯒꯤ ꯈꯣꯝꯒꯤ ꯃꯍꯨꯠ
ꯁꯤꯟꯕ ꯃꯆꯤꯟꯖꯥꯛ ꯄꯤꯊꯛꯇꯨꯅ ꯌꯣꯛꯀꯗꯕꯅꯤ꯫ ꯑꯣꯛ ꯃꯄꯤ ꯍꯦꯛ
ꯄꯣꯛꯄꯒ ꯁꯤꯈꯤꯕ ꯇꯥꯔꯒꯗꯤ ꯑꯣꯛꯅꯥꯎꯁꯤꯡꯗ colostrum ꯊꯛꯄ
ꯐꯪꯗ꯭ꯔꯒꯗꯤ ꯑꯣꯛ ꯃꯄꯤꯒꯤ colostrum ꯅ ꯄꯤꯕ ꯁꯛꯇꯤ ꯑꯗꯨꯃꯛ ꯌꯧꯕ
ꯉꯝꯗ꯭ꯔꯕꯁꯨ ꯁꯟꯕꯤꯒꯤ colostrum ꯅ ꯈꯔ ꯃꯈꯩꯗꯤ ꯉꯥꯊꯣꯛꯍꯟꯕ ZAT!
ꯃꯆꯥ ꯌꯥꯃꯅ ꯆꯦꯟꯗꯕ ꯃꯄꯤ ꯑꯃꯒꯤ ꯃꯅꯥꯛꯇ ꯊꯥꯖꯤꯟꯕ ꯇꯥꯔꯕꯗꯤ ꯃꯄꯤ
ꯑꯗꯨꯒꯤ ꯑꯍꯦꯟꯕ ꯈꯣꯝꯖꯤꯟꯁꯤꯡ ꯑꯗꯨ ꯀꯪꯁꯤꯟꯗ꯭ꯔꯤꯉꯩꯗ ꯊꯥꯖꯤꯟꯒꯗꯕꯅꯤ꯫
ꯊꯥꯖꯤꯟꯕ ꯃꯇꯝꯙ ꯑꯅꯧꯕ ꯃꯆꯥꯁꯤꯡ ꯑꯗꯨ ꯃꯅꯝ ꯃꯥꯟꯅꯗꯕꯗꯒꯤ ꯆꯤꯡꯛꯇꯨꯅ
ꯇꯥꯟꯊꯣꯛꯄ ꯌꯥꯏ ꯃꯁꯤ ꯊꯣꯛꯇꯅꯕ ꯃꯄꯤꯗꯨꯅ ꯆꯦꯜꯂꯝꯂꯤꯕ ꯃꯆꯥꯁꯤꯡ ꯑꯗꯨ
ꯃꯄꯤꯗꯨꯗꯒꯤ ꯈꯥꯏꯗꯣꯛꯂꯒ ꯃꯆꯤ ꯑꯃꯗ ꯄꯨꯜꯂꯞ ꯊꯝꯂꯒ ꯃꯔꯛꯇꯨꯗ ꯑꯅꯧꯕ
ꯃꯆꯥꯁꯤꯡ ꯑꯗꯨ ꯊꯥꯖꯠꯟꯒꯗꯕꯅꯤ꯫ ꯌꯥꯟꯁꯤꯟꯅꯗꯨꯅ ꯂꯩꯕꯔ ꯑꯣꯛꯅꯥꯎꯁꯤꯡ
ꯑꯗꯨꯗ ꯗꯤꯇꯣꯜ ꯅꯠꯇ꯭ꯔꯒ ꯃꯅꯝ ꯂꯩꯕ ꯄꯣꯠꯁꯛ ꯑꯃ ꯆꯥꯏꯁꯤꯟꯕꯤꯔꯒ ꯄꯨꯡ
ꯑꯃꯔꯣꯝ ꯇꯛꯃꯤꯟꯅꯔꯕ ꯃꯇꯨꯡꯗ ꯃꯄꯤ ꯑꯗꯨꯒꯤ ꯃꯅꯥꯛꯇ ꯄꯨꯜꯂꯞ ꯊꯥꯖꯤꯟꯨꯗꯅ
ꯏꯁꯤꯡ ꯆꯥꯏꯕꯤꯗꯨꯅ ꯊꯝꯂꯒ ꯎꯔꯨꯝꯗ ꯊꯝꯕꯤꯗꯨꯅ ꯊꯨꯅ ꯊꯥꯕꯤꯅꯕ ꯍꯣꯠꯅꯕꯤꯒꯅꯤ꯫
ꯆꯥꯔꯥ ꯊꯥꯐꯝ ꯁꯦꯝꯕ : ꯌꯥꯝꯅ ꯅꯤꯡꯊꯤꯅ, ꯂꯩꯀꯨꯞ ꯇꯥꯅ ꯈꯣꯏꯕꯤꯗꯨꯅ ꯄꯤꯛꯇꯛ
ꯇꯧꯕ ꯐꯩꯗꯣꯝ ꯃꯆꯥ ꯃꯆꯥ ꯄꯔꯦꯡ ꯁꯥꯅ ꯁꯦꯝꯕꯤꯒꯅꯤ꯫ ꯐꯩꯗꯣꯝꯒꯤ ꯑꯋꯥꯡꯕꯁꯤ
ꯌꯥꯝꯗ꯭ꯔꯕꯗ 30-40 ꯁꯦꯃꯤ, ꯑꯄꯥꯛꯄ 2.5 ꯃꯤ ꯑꯁꯥꯡꯕꯅ 1.5 ꯃꯤ. ꯑꯗꯨꯒ
ꯉꯝꯂꯕꯗꯤ ꯏꯁꯤꯡ ꯆꯟꯐꯝ ꯊꯝꯕ ꯌꯥꯝꯅ ꯀꯥꯟꯅꯩ꯫
ꯀꯣꯂꯣꯝ ꯁꯦꯝꯕ: ꯁꯟꯊꯤ ꯁꯟꯌꯨꯡꯒꯤ ꯅꯤꯡꯊꯤꯅ ꯄꯠꯊꯔꯕ ꯍꯥꯔꯁꯤꯡ
(ꯑꯦꯐ ꯋꯥꯏ ꯑꯦꯝ) ꯍꯥꯞꯈ꯭ꯔꯕ ꯐꯩꯗꯣꯝꯁꯤꯡꯗ ꯏꯁꯤꯡ ꯈꯤꯛꯈ꯭ꯔꯕ ꯅꯠꯇ꯭ꯔꯒ
ꯏꯁꯤꯡ ꯆꯟꯈ꯭ꯔꯕ ꯐꯩꯗꯣꯝꯁꯤꯡꯗ ꯃꯆꯤꯟ ꯇꯨꯝꯂꯕ ꯆꯩꯅ ꯅꯤꯌꯝ ꯆꯨꯝꯅ ꯂꯪ
ꯇꯤꯡꯗꯨꯅ ꯃꯈꯨ ꯃꯆꯥ ꯃꯆꯥ ꯍꯨꯠꯄꯤꯗꯨꯅ ꯀꯛꯂꯕ ꯀꯣꯂꯣꯝꯁꯤꯡ ꯊꯥꯕꯤꯒꯅꯤ꯫
ꯍꯥꯏꯖꯅꯤꯡꯕ ꯑꯃꯅ, ꯀꯣꯂꯣꯝꯁꯤꯡ ꯑꯗꯨ ꯉꯝꯂꯕꯗꯤ 0.2% ꯗꯥꯏꯊꯦꯟ ꯜ-45
(Dithane - ꯂ - 45) ꯃꯤꯅꯤꯠ 10-15 ꯐꯥꯎꯕ ꯂꯨꯞꯄꯤꯔꯒ ꯊꯥꯕꯤꯔꯕꯗꯤ
ꯁꯤꯕꯒꯤ ꯆꯥꯡ ꯌꯥꯝꯅ ꯍꯟꯊꯍꯜꯂꯤ꯫ ꯑꯁꯤꯗ ꯅꯠꯇꯅ Root hormones

ꯁꯤꯖꯤꯟꯅꯔꯒ ꯌꯥꯝꯅ ꯊꯨꯅ ꯃꯔꯥ ꯇꯥꯍꯟꯗꯨꯅ ꯄꯥꯝꯕꯤꯅ ꯊꯨꯅ ꯃꯄꯨꯡ ꯃꯔꯩ
ꯐꯥꯍꯜꯂꯤ꯫ ꯈꯨꯗꯝ ꯑꯣꯏꯅ, ꯏꯟꯗꯣꯜ ꯑꯦꯁꯤꯇꯤꯛ ꯑꯦꯁꯤꯗ (Indole Acetic
Acid) Indole butyric acid,N.A.A. [KgevgiqKgi!
ꯄꯥꯝꯕꯤ (cutting) ꯊꯥꯕ ꯍꯦꯛ ꯂꯣꯏꯕꯒ ꯃꯈꯣꯡꯗ ꯅꯨꯡꯁꯤꯠ ꯆꯪꯗꯅꯕ
ꯉꯝꯂꯕꯗꯤ ꯂꯩꯉꯣꯏ ꯃꯀꯨꯞ ꯆꯥꯏꯕꯤꯕ ꯌꯥꯝꯅ ꯀꯥꯟꯅꯩ, ꯃꯈꯣꯡꯗꯨ ꯆꯦꯠꯅ
ꯃꯦꯠꯁꯠꯟꯕꯤꯒꯅꯤ, ꯊꯥꯕ ꯃꯇꯝꯗ ꯌꯨꯡꯅ ꯌꯨꯡꯅ ꯊꯥꯕꯤꯒꯅꯤ꯫ ꯃꯁꯤꯅ
ꯃꯌꯣꯜꯗꯒꯤ ꯊꯣꯔꯛꯄ ꯃꯅꯥꯁꯤꯡꯗꯨ ꯆꯞ ꯌꯨꯡꯗꯨꯅ, ꯄꯥꯝꯕꯤ ꯂꯤꯡꯊꯣꯛꯄꯗ
ꯈꯨꯗꯣꯡꯆꯥꯍꯜꯂꯤ꯫ ꯇꯉꯥꯏ ꯐꯗꯅ ꯃꯃꯤꯠ ꯑꯅꯤ ꯂꯩꯅꯨꯡꯗ ꯑꯗꯨꯒ ꯑꯃꯅ
ꯂꯩꯃꯥꯏꯒꯤ ꯃꯊꯛꯇ ꯂꯩꯍꯟꯒꯅꯤ꯫ ꯌꯥꯔꯤꯕꯃꯈꯩ, ꯅꯨꯡꯅ ꯅꯠꯇ꯭ꯔꯒ ꯅꯨꯡꯊꯪꯅ
ꯆꯥꯔꯥ ꯌꯩꯗꯨꯅ ꯊꯥꯕꯤꯔꯣꯏꯗꯕꯅꯤ, ꯃꯃꯤꯠ ꯑꯀꯥꯏꯕ, ꯃꯀꯨ ꯍꯨꯗꯕ ꯈꯟꯕꯤꯒꯅꯤ꯫
ꯑꯔꯥꯞꯄꯗꯤ (10 × 10) ꯖꯂ. ꯑꯣꯏꯗꯨꯅ ꯅꯥꯄꯤ ꯁꯦꯡꯗꯣꯛꯄꯗ ꯑꯃꯗꯤ
ꯄꯥꯝꯕꯤꯅ ꯃꯄꯨꯡ ꯃꯔꯩ ꯐꯥꯅ ꯆꯥꯎꯍꯜꯂꯤ꯫ ꯍꯦꯛ ꯊꯥꯕ ꯂꯣꯏꯕꯒ ꯏꯁꯤꯡ
ꯆꯟꯕꯤꯗꯨꯅ ꯆꯔꯨꯅ ꯅꯠꯇ꯭ꯔꯒ ꯑꯃꯨꯕ ꯆꯦꯔꯪꯅ ꯀꯨꯞꯁꯤꯟꯗꯨꯅ ꯅꯨꯡꯁꯥꯒꯤ
ꯃꯉꯥꯜꯗꯒꯤ ꯃꯩꯁꯥ ꯍꯦꯟꯅ ꯐꯪꯍꯜꯂꯤ, ꯅꯥꯄꯤ ꯍꯧꯕꯒꯤ ꯆꯥꯡ ꯌꯥꯝꯅ ꯍꯟꯊꯍꯜꯂꯤ,
ꯂꯩꯕꯥꯛꯇ ꯌꯥꯎꯕ ꯏꯁꯤꯡꯒꯤ ꯆꯥꯡ ꯊꯨꯅ ꯃꯥꯡꯍꯟꯗꯦ ꯅꯤꯡꯊꯝ ꯊꯥꯒꯤ ꯃꯇꯝꯗ
\kAe TIq (chilling injury) rxg ZkdFOdw ZAT! skmlEFkr

ꯃꯈꯣꯝ ꯄꯤꯊꯛꯀꯗꯕꯅꯤ꯫ ꯃꯄꯤꯒꯤ ꯃꯈꯣꯝꯕꯨ ꯃꯍꯨꯠꯁꯤꯟꯕ ꯃꯆꯤꯟꯖꯥꯛ
ꯄꯤꯖꯗꯨ ꯌꯣꯛꯄ ꯇꯥꯔꯒꯗꯤ ꯂꯥꯏꯅ ꯐꯪꯕ ꯉꯝꯕ ꯁꯟꯕꯤꯒꯤ ꯁꯪꯒꯣꯝ ꯑꯅꯧꯕ
ꯂꯤꯇꯔ ꯑꯃꯗ ꯌꯦꯔꯨꯝ ꯑꯍꯤꯡꯕ 2, ꯕꯗꯥꯝ ꯊꯥꯎ ꯃꯤꯂꯤꯂꯤꯇꯔ 2,
ꯈꯣꯏꯍꯤ ꯃꯤꯂꯤꯂꯤꯇꯔ 50, ꯐꯦꯔꯁ ꯁꯝꯐꯦꯠ ꯁꯣꯂꯨꯁꯟ ꯃꯤꯂꯤꯂꯤꯇꯔ 2,
Vitamin Mineral Mix - 2 ml and Antibiotic premix 40
ꯂꯤ ꯐꯖꯅ ꯊꯤꯠꯂꯒ ꯑꯉꯥꯡꯒꯤ ꯈꯣꯝꯆꯨꯞꯇ ꯅꯣꯡꯃꯗ 5-6 ꯃꯨꯛ ꯍꯥꯞꯇꯥ
2 ꯄꯤꯊꯛꯄꯤꯒꯗꯕꯅꯤ꯫ ꯑꯁꯨꯝꯅ ꯑꯣꯛꯅꯥꯎ ꯑꯃꯅ ꯅꯣꯡꯃꯗ 200ꯂꯦ
ꯐꯥꯎꯕ ꯊꯛꯀꯅꯤ꯫
7) ꯄꯣꯛꯄꯒꯤ ꯃꯇꯨꯡ ꯅꯨꯃꯤꯠ 4 ꯅꯤ ꯁꯨꯕꯗ ꯑꯣꯛꯅꯥꯎ ꯈꯨꯗꯤꯡꯃꯛ
Anaemia rxg sEeq Iron injecgion wgqgxrqeg! aKg
ꯅꯨꯃꯤꯠ 14 ꯅꯤ ꯁꯨꯕꯗ ꯑꯃꯨꯛꯀꯁꯨ ꯄꯥꯡꯊꯣꯛꯀꯅꯤ꯫ ꯃꯁꯤ ꯅꯠꯇ꯭ꯔꯒꯁꯨ
ꯑꯣꯛ ꯃꯄꯤꯒꯤ ꯃꯈꯣꯝ ꯑꯃꯗꯤ ꯈꯣꯝꯖꯤꯟꯁꯤꯡꯗ Ferrous Sulphate
0.5mg., Hot water 10 lt. \kEKgEerbe KlAmq aogKg ebagG
ꯈꯨꯗꯤꯡꯒꯤ ꯄꯣꯛꯄ ꯅꯨꯃꯤꯠꯇꯒꯤ ꯃꯆꯥ ꯈꯥꯏꯅꯕ ꯅꯨꯃꯤꯠ ꯐꯥꯎꯕ ꯇꯩꯕꯤꯔꯒꯗꯤ
ꯍꯥꯏꯔꯤꯕ Anaemia ꯁꯤꯗꯒꯤ ꯌꯥꯝꯟ ꯂꯥꯏꯅ ꯀꯟꯕ ꯉꯝꯒꯅꯤ꯫
8) ꯅꯨꯃꯤꯠ 15-15 ꯅꯤ ꯁꯨꯔꯒꯗꯤ ꯑꯣꯛꯅꯥꯎꯁꯤꯡꯗ ꯑꯐꯕ
ꯃꯈꯜꯒꯤ ꯁꯖꯤꯛ ꯑꯊꯣꯠꯄ ꯑꯅꯧꯕ ꯃꯅꯥ ꯃꯁꯤꯡ ꯀꯛꯊꯠꯂꯒ ꯄꯤꯖꯕ
ꯇꯝꯕꯤꯒꯗꯕꯅꯤ꯫ ꯑꯁꯨꯝꯅ ꯅꯨꯃꯤꯠ ꯈꯨꯗꯤꯡꯒꯤ ꯑꯁꯪꯕ ꯃꯅꯥ ꯃꯁꯤꯡ ꯃꯔꯥꯡ
ꯀꯥꯏꯅ ꯐꯪꯍꯟꯅꯕ ꯍꯣꯠꯅꯒꯗꯕꯅꯤ꯫
9) ꯅꯨꯃꯤꯠ 30-45 ꯁꯨꯔꯕ ꯃꯇꯝꯗ ꯑꯏꯪ-ꯑꯁꯥ ꯐꯤꯚꯝ ꯌꯦꯡꯂꯒ
ꯃꯄꯥꯟꯗ ꯄꯨꯊꯣꯛꯇꯨꯅ ꯑꯣꯏꯔꯣꯏꯗꯕ ꯀꯥꯡꯕꯨꯁꯤꯡꯗꯨ ꯃꯆꯥ ꯁꯦꯝꯗꯣꯛꯄꯤꯕ
ꯌꯥꯏ꯫ ꯃꯆꯥ ꯁꯦꯝꯕꯁꯤ ꯃꯈꯜ ꯑꯅꯤ ꯁꯨꯏ- 1. Chemical castration,
2. Removal of testes by open method. eg!
1. Chemical castration
ꯃꯁꯤꯗ ꯆꯪꯒꯗꯕ ꯄꯣꯠꯂꯝꯁꯤꯡꯗꯤ:- 1. ꯠꯦꯃꯖꯡꯃꯦ Acetic
Acid- 17 m, 2. Distil Water - 83ml and 3. Potassium
Permanganate 0.25ꯤ. = 100 ꯂꯦ.
ꯃꯊꯛꯇ ꯄꯤꯔꯤꯕ ꯑꯁꯤ ꯃꯍꯤ ꯁꯦꯝꯕꯤꯔꯒ ꯑꯣꯛꯅꯥꯎꯒꯤ
ꯇꯦꯁꯇꯤꯀꯦꯜ ꯑꯃꯃꯝꯗ 2ꯂꯦ/2ꯂꯦ ꯀꯥꯞꯄꯤꯔꯒ ꯃꯆꯥ ꯁꯦꯝꯗꯣꯛꯄꯤꯕ
ꯌꯥꯏ ꯃꯁꯤꯗ ꯑꯍꯥꯟꯕ ꯇꯦꯁꯇꯤꯀꯦꯜꯁꯤꯡ ꯑꯁꯤ ꯄꯣꯝꯈꯠꯂꯒ ꯂꯩꯕ
ꯊꯦꯡꯅꯒꯅꯤ ꯃꯁꯒꯤ ꯃꯇꯨꯡꯗ ꯅꯨꯃꯤꯠ 21-30 ꯐꯥꯎꯕꯒꯤ ꯃꯅꯨꯡꯗ
ꯇꯦꯁꯇꯤꯀꯦꯜꯒꯤ ꯁꯥꯏꯖꯁꯤꯡ ꯍꯟꯊꯗꯨꯅ ꯄꯨꯝꯃꯥꯡ ꯃꯥꯡꯈꯤꯒꯅꯤ꯫
2. Open Method:
ꯃꯁꯤ ꯑꯣꯛ ꯂꯣꯏꯅꯔꯤꯕ ꯑꯌꯥꯝꯕꯅ ꯌꯨꯝ ꯌꯨꯝꯗ ꯑꯣꯛ ꯃꯄꯨ ꯃꯁꯥꯅ
ꯅꯠꯇ꯭ꯔꯒ ꯑꯍꯩꯕ ꯃꯤ ꯀꯧꯔꯒ ꯇꯦꯁꯇꯤꯀꯦꯜ ꯑꯗꯨ ꯂꯦꯜꯂꯒ ꯂꯧꯊꯣꯛꯄꯅꯤ꯫
ꯃꯊꯛꯀꯤ ꯃꯆꯥ ꯁꯦꯝꯕꯒꯤ ꯅꯤꯌꯝ ꯑꯁꯤ ꯌꯦꯡꯂꯨꯔꯒꯗꯤ ꯑꯍꯥꯟꯕꯒꯤ
ꯅꯤꯌꯝꯁꯤꯅ ꯍꯦꯟꯅ ꯐꯩ ꯃꯔꯝꯗꯤ- ꯀ) ꯄꯩꯁꯥ ꯆꯪꯗꯦ, ꯈ) ꯌꯥꯝꯅ ꯂꯥꯏꯅ ꯑꯣꯛ
ꯃꯄꯨꯅ ꯇꯧꯕꯤꯕ ꯌꯥꯒꯅꯤ ꯑꯃꯗꯤ ꯒ) ꯑꯣꯛꯅꯥꯎꯁꯤꯡꯗ ꯆꯩꯅꯥꯈꯣꯜ ꯂꯩꯇꯕꯅ ꯆꯥꯕ
ꯊꯛꯄꯗ ꯐꯖꯅ ꯆꯥꯕ ꯉꯝꯒꯅꯤ꯫
ꯑꯣꯛꯅꯥꯎꯁꯤꯡꯕꯨ ꯐꯖꯅ, ꯅꯤꯌꯝ ꯆꯨꯝꯅ ꯌꯣꯛꯄꯁꯤꯁꯨ ꯐꯖꯕ ꯁꯦꯟꯗꯥꯜ
ꯂꯝꯕꯤ ꯑꯃꯅꯤ ꯍꯥꯏꯕꯁꯤꯁꯨ ꯅꯤꯡꯁꯤꯡꯖꯅꯤꯡꯏ꯫

ꯑꯀꯟꯕ ꯅꯨꯡꯁꯥ (Heat injury) ꯗꯒꯤ ꯉꯥꯛꯊꯣꯛꯇꯨꯅ, ꯄꯥꯝꯕꯤꯅ
ꯅꯤꯡꯊꯤꯅ ꯍꯧꯍꯜꯂꯤ꯫
ꯅꯥꯄꯤ ꯁꯦꯡꯕ : ꯄꯥꯝꯕꯤ (ꯀꯠꯇꯤꯡ) ꯊꯥꯈ꯭ꯔꯕ ꯃꯇꯨꯡ ꯅꯨꯃꯤꯠ 35 ꯗꯒꯤ
40 ꯐꯥꯎꯕꯒꯤ ꯃꯅꯨꯡꯗ ꯑꯍꯥꯟꯕ ꯑꯣꯏꯅ ꯅꯥꯄꯤ ꯁꯦꯡꯕꯤꯕ ꯌꯥꯔꯦ ꯑꯗꯨꯒ 2
ꯁꯨꯕ ꯑꯣꯏꯅ ꯊꯥ ꯑꯅꯤ ꯁꯨꯔꯕ ꯀꯥꯟꯗ ꯁꯦꯡꯕꯤꯔꯕ ꯃꯇꯨꯡꯗ ꯌꯨꯔꯤꯌꯥ ꯒ꯭ꯔꯥꯝ
500 ꯐꯩꯗꯣꯝ ꯑꯃꯗ ꯆꯥꯏꯕꯤꯗꯨꯅ ꯏꯁꯤꯡ ꯄꯤꯕꯤꯒꯅꯤ꯫ ꯑꯁꯨꯝꯅ ꯃꯄꯨꯡ
ꯃꯔꯩ ꯐꯥꯅꯕ ꯌꯥꯝꯗ꯭ꯔꯕꯗ ꯊꯥ 5-6 ꯇꯤ ꯊꯝꯕꯤꯌꯨ꯫
ꯄꯥꯝꯕꯤ ꯍꯣꯡꯗꯣꯛꯄ (Plantation) : ꯃꯄꯨꯡ ꯃꯔꯩ ꯐꯥꯔꯕ
ꯆꯥꯔꯥꯁꯤꯡ ꯀꯨꯝꯒꯤ ꯅꯣꯡ ꯍꯦꯛ ꯂꯥꯛꯂꯝꯗꯥꯏꯗ ꯊꯥꯕꯤꯅꯕ ꯍꯣꯠꯅꯕꯤꯌꯨ꯫
ꯊꯥꯒꯗꯧꯔꯤꯕ ꯃꯐꯝ ꯑꯗꯨ (ꯐꯤꯜꯗ) ꯀꯥꯂꯦꯟ ꯊꯥꯗ ꯂꯧꯑꯣꯟ 4-5 ꯔꯛ
ꯈꯣꯏꯕꯤꯗꯨꯅ, ꯅꯥꯄꯤ-ꯁꯤꯡꯅꯥ, ꯎꯔꯨ-ꯋꯥꯔꯨ, ꯅꯨꯉꯝꯆꯥꯁꯤꯡ ꯂꯧꯊꯣꯛꯄꯤꯗꯨꯅ
ꯐꯖꯅ ꯂꯪ ꯇꯤꯡꯕꯤꯗꯨꯅ, ꯀꯣꯝ ꯇꯧꯕꯤꯗꯨꯅ ꯄꯥꯝꯕꯤ ꯊꯥꯅꯕ ꯍꯣꯠꯅꯕꯤꯒꯅꯤ꯫
ꯀꯥꯕ꯭ꯔꯪꯆꯥꯛ ꯄꯥꯝꯕꯤ ꯊꯥꯐꯝꯗꯨ ꯉꯝꯂꯕꯗꯤ ꯏꯁꯤꯡ ꯐꯪꯐꯝꯒ ꯅꯛꯅꯅ ꯂꯩꯕꯅ
ꯍꯦꯟꯅ ꯐꯩ, ꯌꯥꯔꯤꯕꯃꯈꯩ ꯐꯣꯂꯤ ꯇꯥꯕ, ꯇꯣꯡꯇꯛ ꯇꯧꯕ ꯏꯁꯤꯡ ꯇꯨꯡꯗꯕ,
ꯑꯗꯨꯒ ꯆꯤꯡꯒꯤ ꯂꯝ ꯑꯣꯏꯔꯒꯅ ꯐꯩꯗꯣꯝ ꯃꯆꯥ ꯃꯆꯥ ꯁꯦꯝꯕꯤꯗꯨꯅ
ꯊꯥꯕꯤꯒꯅꯤ꯫ ꯃꯁꯤꯅ ꯂꯩꯕꯥꯛ ꯂꯩꯍꯥꯎ, ꯉꯥꯛꯏ, ꯏꯁꯤꯡꯒꯤ ꯆꯥꯡ ꯃꯥꯟꯅꯅ
ꯐꯪꯍꯜꯂꯤ꯫ ꯄꯥꯝꯕꯤꯅ ꯍꯧꯕꯗ ꯊꯨꯅ ꯆꯥꯎꯅꯕ ꯀꯣꯝ ꯈꯨꯗꯤꯡꯒꯤ ꯁꯟꯊꯤ
ꯁꯟꯌꯨꯡꯒꯤ ꯍꯥꯔ ꯀꯦꯖꯤ ꯑꯃ ꯃꯈꯥꯏꯗꯒꯤ ꯇꯥꯗꯅ ꯍꯥꯞꯄꯤꯒꯅꯤ꯫
ꯀꯥꯡꯈꯨꯜ ꯑꯃꯒ ꯐꯨꯠ 3 ꯑꯃꯗꯤ ꯐꯨꯠ 4 ꯗꯒꯤ ꯇꯥꯗꯅ ꯊꯝꯕꯅ ꯀꯣꯕꯨꯇꯥ
ꯆꯪꯕꯗ, ꯅꯥꯄꯤ ꯁꯦꯡꯕꯗ ꯈꯨꯗꯣꯡ ꯆꯥꯍꯜꯂꯤ ꯑꯃꯗꯤ ꯄꯥꯝꯕꯤꯅ ꯅꯨꯡꯁꯥ
ꯃꯔꯥꯡ ꯀꯥꯏꯅ ꯐꯪꯗꯨꯅ ꯂꯥꯏꯅꯥ-ꯇꯤꯟꯅꯥꯗꯒꯤ ꯉꯥꯛꯊꯣꯛꯄꯗ ꯃꯇꯦꯡ \
ꯥꯝꯅ ꯑꯣꯏꯍꯜꯂꯤ꯫

ꯀꯔꯤꯒꯨꯝꯕ ꯃꯁꯥ ꯀꯪꯂꯒ ꯗꯥꯏꯔꯦꯛꯠ ꯐꯤꯜꯗꯗ ꯊꯥꯕꯤꯒꯦ ꯍꯥꯏꯔꯕꯗꯤ
ꯆꯍꯤ ꯑꯃꯗꯒꯤ ꯇꯥꯗꯕ ꯄꯥꯝꯕꯤꯅ ꯁꯦꯝꯕꯤꯕ ꯃꯁꯥ ꯑꯣꯏꯕꯤꯒꯅꯤ ꯑꯗꯨꯒ
ꯀꯥꯡꯈꯨꯜ ꯑꯃꯗ ꯀꯠꯇꯤꯡ 3-3 ꯊꯥꯕꯤꯒꯅꯤ꯫ ꯑꯁꯡꯕꯗꯤ ꯁꯦꯃꯤ 15-
18 ꯑꯣꯏꯕꯤꯌꯨ꯫ ꯄꯥꯝꯕꯤ ꯂꯤꯡꯊꯣꯛꯄꯗ ꯄꯥꯝꯕꯤꯒ ꯄꯔꯦꯡ ꯆꯨꯝꯅ ꯆꯨꯝꯅ
ꯊꯥꯕꯤꯕꯅ ꯐꯖꯕꯗ ꯅꯠꯇꯅ ꯍꯥꯔ ꯍꯥꯞꯄ, ꯅꯥꯄꯤ ꯁꯦꯡꯕꯗ ꯌꯥꯝꯅ ꯈꯨꯗꯣꯡ
ꯆꯥꯍꯜꯂꯤ꯫ ꯄꯥꯝꯕꯤ ꯈꯨꯗꯤꯡꯃꯛ ꯆꯞ ꯌꯨꯡꯅ ꯃꯈꯣꯡ ꯆꯦꯠꯅ ꯊꯥꯕꯤꯌꯨ꯫
ꯅꯔꯁꯔꯤ ꯆꯥꯔꯥ ꯑꯗꯨꯅ ꯌꯥꯝꯅ ꯋꯥꯡꯂꯕꯗꯤ ꯐꯨꯠ ꯑꯃ ꯃꯈꯥꯏꯒꯤ ꯆꯥꯡꯗ ꯐꯖꯅ
ꯀꯥꯇꯤꯅ ꯀꯛꯄꯤꯒꯅꯤ꯫ ꯑꯁꯨꯝꯅ ꯊꯥꯈꯤꯕ ꯅꯨꯃꯤꯠ 4-5 ꯁꯨꯕꯗ ꯇꯞꯅ
ꯇꯞꯅ ꯏꯁꯤꯡ ꯆꯟꯕꯤꯗꯨꯅ ꯊꯝꯕꯤꯒꯅꯤ꯫

ꯃꯅꯤꯄꯨꯔꯗ ꯃꯤꯑꯣꯏꯕꯒꯤ ꯈꯣꯡꯒꯥꯎꯅꯕ
ꯃꯤꯆꯝ ꯃꯤꯌꯥꯝꯅ ꯈꯥꯡꯕ ꯉꯝꯕꯒꯤ ꯄꯟꯈꯩ ꯂꯥꯟꯍꯟꯗꯕ ꯐꯩ
ꯃꯅꯤꯄꯨꯔꯗ ꯆꯍꯤ ꯀꯌꯥꯒꯤ ꯃꯃꯥꯡꯗꯒꯤ ꯂꯩꯔꯛꯂꯤꯕ ꯃꯨꯛꯅꯕ ꯑꯁꯤꯒꯤ ꯋꯥꯔꯣꯏꯁꯤꯟ
ꯑꯃ ꯁꯥꯟꯇꯤ ꯑꯣꯏꯕ ꯃꯑꯣꯡꯗ ꯄꯨꯔꯛꯅꯕ ꯍꯣꯠꯅꯗꯕꯅ ꯃꯔꯝ ꯑꯣꯏꯗꯨꯅ ꯂꯝꯗꯝꯁꯤꯗ
ꯊꯣꯛꯍꯟꯅꯤꯡꯗꯕ ꯊꯧꯗꯣꯛ ꯀꯌꯥ ꯑꯃ ꯊꯣꯛꯄꯗ ꯅꯠꯇꯅ ꯃꯤꯆꯝ ꯃꯤꯌꯥꯝꯒꯤ ꯍꯛ ꯈꯣꯡꯒꯥꯎꯅꯕꯒꯤ ꯑꯋꯥꯕ ꯃꯥꯌꯣꯛꯅꯗꯨꯅ ꯂꯩꯔꯤ꯫ ꯁ꯭ꯇꯦꯠ ꯑꯃꯁꯨꯡ ꯁꯦꯟꯇꯔ ꯂꯩꯉꯥꯛꯅ ꯃꯨꯛꯅꯕ ꯂꯩꯔꯤꯕ ꯑꯁꯤ ꯁꯥꯏꯟꯇꯤꯛ ꯑꯣꯏꯕ ꯃꯤꯠꯌꯦꯡ ꯑꯃꯒꯤ ꯃꯈꯥꯗ ꯑꯃꯁꯨ ꯑꯃꯁꯨ ꯀꯥꯏꯗꯅꯕ ꯃꯇꯃ ꯆꯨꯞꯄꯒꯤ ꯑꯣꯏꯕ ꯋꯥꯔꯣꯏꯁꯤꯟ ꯄꯨꯔꯛꯅꯕ ꯍꯣꯠꯅꯕꯒꯤ ꯃꯍꯨꯠ ꯁꯦꯀꯨꯔꯤꯇꯤꯒꯤ ꯑꯍꯦꯟꯕ ꯐꯣꯔꯁ ꯊꯝꯖꯤꯗꯨ ꯃꯈꯥ ꯇꯥꯅ ꯏꯃꯨ ꯅꯥꯏꯃꯨ ꯇꯥꯅꯕꯒꯤ ꯃꯤꯠꯌꯦꯡ ꯊꯝꯂꯤ꯫ ꯄꯨꯝꯅꯃꯛ ꯑꯁꯤꯒꯤ ꯃꯊꯛꯇ ꯃꯤꯑꯣꯏꯕꯒꯤ ꯃꯔꯛꯇ ꯊꯝꯍꯩꯗꯕ ꯖꯪꯒꯜ ꯂꯣꯅꯤ ꯍꯥꯏꯅꯔꯤꯕ ꯑꯐꯁꯄꯥ ꯂꯤꯁꯥꯡ ꯁꯤꯠꯅ ꯊꯝꯖꯤꯟꯗꯨꯅ ꯁꯦꯀꯨꯔꯤꯇꯤ ꯐꯣꯔꯁꯇ ꯑꯍꯦꯟꯕ ꯁꯛꯇꯤꯒꯤ ꯏꯅꯣꯠ ꯄꯤꯔꯤ ꯍꯥꯏꯕꯒꯤꯗꯃꯛ ꯃꯤꯌꯥꯃꯅ ꯑꯀꯟꯕ ꯈꯣꯜꯂꯥꯎ ꯂꯥꯎꯗꯨꯅ ꯂꯥꯛꯂꯤ꯫ ꯂꯩꯉꯥꯛꯀꯤ ꯃꯥꯏꯀꯩꯗꯒꯤ ꯇꯣꯉꯥꯟ ꯇꯥꯕ ꯑꯃ ꯑꯣꯏꯅ ꯂꯣ ꯑꯦꯟꯗ ꯑꯣꯗꯔꯒꯤ ꯋꯥꯐꯝꯅ ꯋꯥꯌꯦꯠ ꯑꯣꯏꯔꯒ ꯑꯐꯁꯄꯥ ꯃꯈꯥ ꯇꯥꯅ ꯊꯝꯖꯤꯟꯕ ꯄꯨꯝꯅꯃꯛꯅ ꯎꯔꯤ꯫ ꯃꯅꯤꯄꯨꯔꯗ ꯈꯨꯠꯂꯥꯏ ꯄꯥꯏꯕ ꯃꯂꯤꯇꯦꯟꯠ ꯍꯥꯏꯒꯦꯔ ꯂꯥꯜꯍꯧꯕ ꯍꯥꯏꯒꯦꯔ ꯈꯨꯠꯂꯥꯏ ꯄꯥꯏꯕꯒꯤ ꯁ꯭ꯇ꯭ꯔꯒꯜ ꯆꯪꯁꯤꯜꯂꯤꯕ ꯒ꯭ꯔꯨꯞ ꯀꯌꯥ ꯊꯦꯡꯅꯅꯕ ꯍꯣꯠꯅꯕꯗ ꯃꯤꯆꯝ ꯃꯤꯌꯥꯝꯗ ꯑꯣꯟꯁꯤꯟꯗꯨꯅ ꯃꯤꯍꯥꯠ ꯃꯤꯄꯨꯟ ꯆꯠꯊꯕ, ꯑꯣꯠ-ꯅꯩꯕꯅꯆꯤꯡꯕ ꯃꯤꯑꯣꯏꯕꯒꯤ ꯍꯛ ꯈꯣꯡꯒꯥꯎꯅꯕꯒꯤ ꯊꯧꯑꯣꯡ ꯂꯦꯞꯇꯅ ꯆꯠꯊꯔꯤ ꯍꯥꯏꯕꯁꯤꯒꯤ ꯄ꯭ꯔꯃꯥꯟ ꯀꯌꯥ ꯂꯩꯔꯦ1 ꯀꯨꯝꯖꯥ 2002 ꯗ ꯃꯥꯂꯣꯝ ꯕꯣꯔꯣꯏ ꯃꯈꯣꯡꯗ ꯁꯦꯀꯨꯔꯤꯇꯤ ꯀꯥꯡꯕꯨꯅ ꯃꯤꯆꯝ ꯃꯤꯌꯥꯝ ꯊꯧꯑꯣꯏꯅ ꯍꯥꯠꯈꯤꯕꯒꯤ ꯖꯖꯃꯦꯟꯠ ꯆꯍꯤ 12 ꯒꯤ ꯃꯇꯨꯡꯗ ꯂꯥꯎꯊꯣꯛꯈ꯭ꯔꯦ꯫ ꯂꯩꯕꯥꯛ ꯑꯁꯤꯗ ꯆꯠꯅꯔꯤꯕ ꯂꯣꯒꯤ ꯃꯇꯨꯡꯏꯟꯅ ꯁꯦꯀꯨꯔꯤꯇꯤ ꯐꯣꯔꯁꯅ ꯃꯤꯆꯝ ꯃꯤꯌꯥꯝꯕꯨ ꯍꯦꯛꯇꯃꯛ ꯍꯥꯠꯄ, ꯍꯛ ꯈꯣꯡꯒꯥꯎꯅꯕꯤ ꯊꯧꯑꯣꯡ ꯆꯠꯊꯩ ꯍꯥꯏꯕꯁꯤ ꯆꯞ ꯆꯥꯅ ꯎꯔꯦ꯫ ꯃꯁꯤꯗ ꯅꯠꯇꯅ ꯁ꯭ꯇꯦꯠ ꯑꯁꯒꯤ ꯃꯅꯨꯡꯗ ꯁꯥꯁꯤꯟꯅꯕ ꯅꯣꯡꯃꯩ ꯀꯥꯞꯄꯄꯒꯤ ꯊꯧꯗꯣꯛ ꯂꯩꯍꯟꯗꯨꯅ ꯃꯤꯆꯝ ꯍꯥꯠꯄ ꯊꯧꯗꯣꯛ ꯃꯁꯤꯡ ꯈꯪꯗꯅ ꯊꯣꯛꯂꯤ꯫ ꯃꯅꯤꯄꯨꯔꯒꯤ ꯋꯥꯐꯝꯈꯛ ꯅꯠꯇꯅ ꯏꯟꯗꯤꯌꯥꯒꯤ ꯃꯐꯝ ꯀꯌꯥꯗ ꯁꯦꯝꯖꯤꯟ ꯁꯥꯖꯠꯅꯕ ꯈꯨꯠ ꯊꯣꯛꯅꯕꯒꯤ ꯊꯧꯗꯣꯛꯇ ꯃꯔꯥꯜ ꯂꯩꯖꯗ꯭ꯔꯕ ꯃꯤꯆꯝ ꯀꯌꯥ ꯍꯥꯠꯄ ꯇꯣꯏꯁꯤꯜꯂꯛꯄꯗꯒꯤ ꯂꯩꯕꯥꯛ ꯑꯁꯤꯒꯤ ꯂꯣꯒꯤ ꯊꯧꯗꯥꯡ ꯂꯧꯈꯠꯂꯛꯇꯨꯅ ꯄꯨꯂꯤꯁꯃꯦꯟꯁꯤꯡ ꯃꯄꯨꯟꯁꯤ ꯆꯨꯞꯄꯗ ꯐꯥꯗꯣꯛ ꯄꯤꯗꯨꯅ ꯖꯦꯜꯗ ꯂꯩꯍꯟꯅꯕ ꯋꯥꯌꯦꯜꯒꯤ ꯑꯆꯨꯝꯕ ꯖꯖꯃꯦꯟꯠ ꯄꯤꯈꯤꯕ ꯄꯨꯝꯅꯃꯛꯅ ꯈꯪꯅꯔꯦ꯫ ꯍꯧꯖꯤꯛ ꯍꯧꯖꯤꯛ ꯂꯩꯕꯥꯛ ꯑꯁꯤꯗ ꯆꯠꯊꯔꯛꯂꯤꯕ ꯃꯤꯑꯣꯏꯕꯒꯤ ꯍꯛ ꯈꯣꯡꯒꯥꯎꯅꯕꯒꯤ ꯃꯇꯥꯡꯗ ꯃꯥꯂꯦꯝꯒꯤ ꯑꯣꯏꯅ ꯂꯤꯡꯕ ꯍ꯭ꯌꯨꯃꯦꯟ ꯔꯥꯏꯠꯁ ꯒ꯭ꯔꯨꯞ ꯀꯌꯥꯅ ꯏꯟꯗꯤꯌꯥꯗ ꯑꯀꯟꯕ ꯃꯤꯠꯌꯦꯡ ꯊꯝꯅꯔꯛꯂꯤ꯫ ꯄꯨꯝꯅꯃꯛ ꯑꯁꯤ ꯅꯥꯊꯩꯗꯨꯅ ꯆꯠꯂꯛꯄ ꯍꯥꯏꯕꯁꯤꯒꯤ ꯐꯤꯗꯥꯐꯝ ꯂꯩꯔꯛꯇꯕ, ꯃꯥꯂꯦꯝꯒꯤ ꯂꯩꯕꯥꯛꯁꯤꯡꯗꯒꯤ ꯅꯥꯏꯇꯣꯝ ꯇꯥꯔꯛꯄ ꯊꯣꯛꯂꯕꯗꯤ ꯏꯀꯥꯏ ꯐꯤꯔꯨꯞ ꯈꯨꯝꯅꯤꯡꯉꯥꯏ ꯑꯣꯏꯔꯛꯀꯅꯤ꯫ ꯏꯟꯗꯤꯌꯥꯒꯤ ꯂꯩꯉꯥꯛ ꯃꯅꯨꯡꯗ ꯂꯩꯔꯤꯕ ꯑꯋꯥꯡ ꯅꯣꯡꯄꯣꯛ ꯂꯝꯗꯝꯗ ꯊꯣꯛꯂꯤꯕ ꯃꯨꯛꯅꯕ ꯑꯁꯤꯒꯤ ꯃꯅꯨꯡꯗ ꯃꯤꯑꯣꯏ ꯀꯌꯥ ꯊꯤꯐꯝ ꯈꯪꯗꯅ ꯂꯩꯕ, ꯁꯦꯀꯨꯔꯇꯤꯒꯤ ꯀꯥꯍꯦꯟꯕ ꯁꯥꯖꯠꯅ ꯑꯑꯣꯟ ꯑꯅꯩ ꯆꯠꯊꯕꯗꯒꯤ ꯁꯣꯏꯅꯥꯏꯕ ꯀꯌꯥ ꯑꯃ ꯂꯩꯔꯤ꯫ ꯃꯤꯑꯣꯏꯕꯒꯤ ꯃꯔꯛꯇ ꯃꯤꯑꯣꯏꯕꯅ ꯑꯈꯟꯅꯅ ꯁꯦꯀꯨꯔꯤꯇꯤꯅ ꯆꯠꯊꯔꯛꯄ ꯃꯆꯤꯡ ꯃꯁꯣꯜ ꯅꯥꯏꯕ ꯃꯑꯣꯡꯒꯤ ꯑꯑꯣꯠ ꯑꯅꯩꯒꯤ ꯋꯥꯀꯠ ꯀꯥꯅꯅꯕꯨ ꯇꯥꯕꯤꯔꯤꯕꯒꯦ꯫ ꯍꯩꯔꯥꯡꯒꯣꯏ ꯊꯣꯡ, ꯔꯤꯝꯁꯀꯤ ꯃꯤꯍꯥꯠ, ꯆꯅꯨ ꯔꯣꯖꯒꯤ ꯄꯨꯟꯁꯤ ꯄꯤꯈꯝꯅꯈꯤꯕ, ꯃꯅꯣꯔꯃꯥꯕꯨ ꯇꯝꯊꯤꯅ ꯑꯣꯠ ꯅꯩꯕꯗ ꯅꯠꯇꯅ ꯁꯦꯛꯆꯨꯑꯦꯜ ꯑꯦꯁꯣꯜꯠ ꯆꯠꯊꯗꯨꯅ ꯍꯥꯠꯈꯤꯕꯅꯆꯤꯡꯕ ꯀꯌꯥ ꯑꯁꯤꯕꯨ ꯁ꯭ꯇꯦꯠ ꯑꯁꯤꯗ ꯂꯩꯔꯤꯕ ꯃꯤꯌꯥꯝꯅ ꯀꯔꯝꯅ ꯀꯥꯎꯊꯣꯛꯄ ꯉꯝꯒꯗꯒꯦ꯫ ꯈꯨꯠꯂꯥꯏ ꯄꯥꯏꯕ ꯃꯁꯦꯜꯒꯤ ꯃꯔꯛꯇ ꯃꯨꯛꯅꯔꯛꯄꯗ ꯇꯥꯏꯅꯐꯝ ꯈꯪꯗꯗꯨꯅ ꯃꯤꯆꯝ ꯃꯤꯌꯥꯝꯗ ꯍꯦꯛ ꯍꯦꯛ ꯑꯣꯟꯁꯤꯟꯕꯒꯤ ꯊꯧꯑꯣꯡ ꯀꯅꯥꯅ ꯊꯤꯡꯕ ꯉꯝꯂꯕꯒꯦ? ꯃꯤꯆꯝ ꯃꯤꯌꯥꯝꯒꯤ ꯄꯨꯟꯁꯤ, ꯂꯟꯊꯨꯝ ꯉꯥꯛꯄꯤ ꯁꯦꯟꯕꯤꯅꯕ ꯑꯃꯁꯨꯡ ꯂꯣ ꯑꯦꯟꯗ ꯑꯣꯔꯗꯔꯒꯤ- ꯐꯤꯚꯝ ꯉꯥꯛꯅꯕ ꯍꯣꯠꯅꯕꯒꯤ ꯐꯖꯈ꯭ꯔꯕ ꯋꯥꯍꯟꯊꯣꯛ ꯑꯃꯒꯤ ꯃꯈꯥꯗ ꯊꯝꯂꯤꯕ ꯁꯦꯀꯨꯔꯤꯇꯤ ꯀꯥꯡꯕꯨꯅ ꯑꯣꯟꯅ ꯇꯩꯅꯕ ꯃꯤꯠꯌꯦꯡꯗ ꯈꯣꯡ ꯊꯥꯡꯂꯛꯄ ꯍꯥꯏꯕꯁꯤ ꯃꯤꯇꯩ ꯏꯄꯥ ꯏꯄꯨꯁꯤꯡꯅ ꯊꯝꯕꯤꯔꯝꯕ, ꯁꯝꯜꯅ ꯍꯋꯥꯏꯃꯇꯣꯟ ꯆꯥꯕ ꯍꯥꯏꯕꯗꯨꯃꯛꯅꯤ꯫ ꯃꯤꯑꯣꯏꯕꯒꯤ ꯍꯛ ꯈꯣꯡꯒꯥꯎꯅꯕꯒꯤ ꯊꯧꯗꯣꯛꯅ ꯃꯔꯤ ꯂꯩꯅꯅ ꯀꯣꯔꯠꯇ ꯋꯥꯀꯠꯂꯛꯄꯗ ꯆꯍꯤ ꯀꯌꯥ ꯆꯪꯅ ꯋꯥꯌꯦꯜ ꯆꯠꯊꯕꯅ ꯃꯤꯆꯝ ꯃꯤꯌꯥꯝꯅ ꯊꯃꯣꯏ ꯈꯨꯗꯨꯝ ꯁꯨꯗꯨꯅ ꯈꯥꯡꯕ ꯄꯨꯝꯅꯃꯛꯅ ꯎꯔꯤ꯫ ꯃꯥꯂꯣꯝ ꯃꯤꯍꯥꯠꯀꯤ ꯃꯇꯥꯡꯗ ꯆꯍꯤ 12 ꯂꯩꯔꯒ ꯖꯖꯃꯦꯟꯠ ꯐꯪꯂꯦ ꯍꯥꯏꯕ ꯂꯩꯔꯒꯁꯨ ꯃꯃꯜ ꯌꯥꯝꯂꯕ ꯃꯤꯆꯝ ꯃꯤꯌꯥꯝꯒꯤ ꯄꯨꯟꯁꯤ ꯃꯥꯡꯈꯤꯕ ꯀꯌꯥꯒꯤ ꯏꯃꯨꯡ ꯃꯅꯨꯡꯅ ꯑꯄꯦꯟꯕ ꯑꯣꯏꯒꯗ꯭ꯔ ꯍꯥꯏꯕ ꯋꯥꯍꯪ ꯂꯩꯔꯛꯏ꯫ ꯀꯅꯥꯒꯨꯝꯕ ꯃꯤꯆꯝ ꯑꯃꯅ ꯅꯥꯏꯇꯣꯝ ꯑꯆꯤꯛꯄ, ꯑꯃ-ꯑꯊꯦꯡꯕꯗ ꯆꯠꯄ ꯃꯇꯝꯗ ꯁꯦꯀꯨꯔꯤꯇꯤ ꯅꯠꯇ꯭ꯔꯒ ꯁ꯭ꯇꯦꯠ ꯐꯣꯔꯁꯀꯤꯕꯨ ꯑꯣꯏꯔꯕꯁꯨ ꯃꯈꯜ ꯑꯃꯒꯤ ꯌꯨꯅꯤꯐꯣꯝ ꯁꯦꯠꯄ ꯄꯥꯔꯥꯅꯦꯜꯁꯤꯡ ꯊꯦꯡꯅꯒꯗ꯭ꯔ ꯍꯥꯏꯕꯒꯤ ꯃꯤꯍꯨꯜ ꯆꯦꯡꯒꯨꯝ ꯆꯦꯡꯒꯥꯅꯕ ꯄꯨꯝꯅꯃꯛꯅ ꯈꯪꯅꯔꯤ, ꯎꯅꯔꯤ꯫ ꯃꯔꯝ ꯑꯁꯤꯅ ꯃꯅꯤꯄꯨꯔ ꯂꯩꯉꯥꯛ ꯑꯃꯗꯤ ꯏꯟꯗꯤꯌꯥ ꯂꯩꯉꯥꯅ ꯃꯅꯤꯄꯨꯔꯗ ꯊꯣꯛꯂꯤꯕ ꯃꯤꯑꯣꯏꯕꯒꯤ ꯍꯛ ꯈꯣꯡꯒꯥꯎꯅꯕꯒꯤ ꯀꯥꯍꯦꯟꯕ ꯊꯧꯑꯣꯡꯁꯤꯡ ꯂꯩꯍꯟꯗꯅꯕ ꯑꯆꯨꯝꯕ, ꯑꯀꯟꯕ ꯃꯤꯠꯌꯦꯡ ꯊꯝꯕ ꯇꯉꯥꯏ ꯐꯗꯦ꯫ ꯀꯤꯍꯟ ꯈꯪꯍꯜꯂꯒ ꯋꯥꯊꯣꯛ ꯑꯃꯒꯤ ꯋꯥꯔꯣꯏꯁꯤꯟ ꯄꯨꯔꯛꯀꯅꯤ ꯍꯥꯏꯕ ꯂꯧꯁꯤꯡ ꯁꯥꯟꯅꯕ ꯂꯦꯞꯇ꯭ꯔꯕꯗꯤ ꯃꯤꯌꯥꯝꯅ ꯈꯥꯡꯕ ꯉꯝꯕꯒꯤ ꯄꯟꯈꯩ ꯂꯥꯟꯈꯤꯗꯨꯅ ꯁꯤꯚꯤꯜ ꯋꯥꯔꯒꯤ ꯃꯃꯤ ꯇꯝꯂꯛꯄ ꯌꯥꯏ꯫ ꯃꯇꯝꯗꯨꯗ ꯐꯝꯅꯥꯏꯕꯁꯤꯡꯅ ꯍꯩꯁꯤꯡꯅꯕ ꯁꯥꯗꯨꯅ ꯂꯣꯠꯄ ꯌꯥꯔꯛꯂꯣꯏ꯫

ꯍꯨꯏꯌꯦꯟ ꯂꯥꯟꯄꯥꯎ

...ꯑꯦꯗꯤꯇꯔꯗ ꯊꯥꯔꯛꯄ ꯆꯤꯊꯤ...

ꯗꯥ. ꯖꯦꯁꯃꯥꯔꯥꯅꯤ ꯁꯔꯥꯊꯦꯝ
ꯋꯥꯏꯈꯣꯝ ꯕꯤꯁꯦꯁ꯭ꯋꯔ
ꯃꯍꯩꯔꯣꯏꯁꯤꯡꯒꯤ ꯌꯦꯡꯂꯒ
ꯃꯦꯂꯥ ꯇꯧꯕꯤꯒꯅꯨ
ꯏꯀꯥꯏ ꯈꯨꯝꯅꯖꯔꯤꯕ ꯑꯦꯗꯤꯇꯔ, ꯍꯧꯖꯤꯛꯁꯤ ꯍꯥꯏ ꯁ꯭ꯀꯨꯜ ꯐꯥꯎꯕꯒꯤ ꯊꯥꯛꯇ
ꯂꯩꯕ ꯃꯍꯩꯔꯣꯏꯁꯤꯡꯒꯤ ꯑꯦꯛꯖꯥꯝ ꯂꯣꯏꯅꯈ꯭ꯔꯦ
ꯑꯗꯨꯕꯨ ꯃꯦꯇ꯭ꯔꯤꯛ ꯍꯥꯏꯔꯒꯁꯨ ꯈꯪꯅꯕ ꯀ꯭ꯂꯥꯁ
ꯇꯦꯟꯒꯤ ꯕꯣꯔꯗꯀꯤ ꯑꯦꯛꯖꯥꯝ ꯂꯩꯍꯧꯔꯤ꯫ ꯂꯣꯏꯅꯅ
ꯀ꯭ꯂꯥ ꯇꯨꯌꯦꯜꯐꯀꯤ ꯀꯥꯎꯟꯁꯤꯜꯒꯤ ꯑꯦꯛꯖꯥꯝ
ꯂꯩꯔꯤ꯫ ꯃꯁꯤꯗ ꯅꯠꯇꯅ ꯕꯤ ꯑꯦ, ꯕꯤ ꯑꯦꯁ
ꯁꯤ ꯅꯆꯤꯡꯕꯒꯤ ꯑꯦꯛꯖꯥꯝꯁꯨ ꯆꯠꯊꯔꯤꯕ꯫
ꯃꯦꯗꯤꯀꯦꯜ, ꯏꯟꯖꯤꯅꯤꯌꯔꯤꯡꯒꯤ ꯏꯟꯇ꯭ꯔꯥꯟꯁ
ꯑꯦꯛꯖꯥꯝꯁꯤꯡꯁꯨ ꯄꯥꯡꯊꯣꯛꯀꯗꯕ ꯋꯥꯠꯂꯤ꯫ ꯑꯗꯨꯅ
ꯍꯧꯖꯤꯛꯁꯤ ꯃꯍꯩꯔꯣꯏꯁꯤꯡꯅ ꯀꯟꯅ ꯍꯣꯠꯅꯗꯨꯅ
ꯃꯥꯏ ꯄꯥꯛꯄ ꯑꯃꯗꯤ ꯑꯇꯣꯞꯄꯁꯤꯡꯗꯒꯤ
ꯃꯤꯊꯣꯏ ꯃꯤꯍꯦꯟꯕ ꯑꯣꯏꯅꯕꯒꯤ ꯌꯥꯝꯅ
ꯃꯔꯨꯑꯣꯏꯕ ꯇꯥꯟꯐꯝ ꯑꯃꯅꯤ꯫ ꯇꯥꯟꯐꯝ ꯑꯁꯤꯕꯨ
ꯃꯤꯔꯥꯏꯕ ꯃꯍꯩꯔꯣꯏ ꯑꯌꯥꯝꯕꯗꯤ ꯃꯥꯏꯊꯤꯕ,
ꯅꯤꯡꯕ ꯀꯥꯏꯕꯅꯆꯤꯡꯕ ꯅꯪꯒꯜꯂꯤ꯫ ꯑꯁꯤꯒꯨꯝꯕ
ꯆꯤꯔꯕ ꯇꯥꯜꯂꯛꯁꯤꯗ ꯃꯊꯣꯡ ꯍꯨꯛꯇꯕ, ꯄꯥꯝꯗꯕ
ꯅꯠꯇ꯭ꯔꯒ ꯇꯥꯟꯊꯥ ꯆꯥꯗꯕ ꯖꯒꯣꯏ ꯁꯥꯔꯛꯄꯁꯤ \
ꯥꯝꯅ ꯅꯨꯡꯉꯥꯏꯇꯕ ꯄꯣꯛꯆꯩ꯫
ꯀꯛꯆꯤꯡ ꯍꯥꯏꯕꯁꯤ ꯃꯅꯤꯄꯨꯔꯒꯤ ꯈꯥ ꯃꯥꯏꯀꯩ
ꯑꯣꯏꯅ ꯂꯩꯕ ꯁꯨꯕ ꯅꯣꯝꯕ ꯀꯟꯖꯕ ꯂꯝꯗꯝ ꯑꯃꯅꯤ꯫
ꯂꯥꯏꯔꯛ ꯂꯥꯏꯁꯨꯒꯤ ꯂꯝꯗꯁꯨ ꯃꯅꯤꯄꯨꯔꯒꯤ
ꯑꯇꯩ ꯃꯐꯝꯁꯤꯡꯗꯒꯤ ꯄꯪꯅꯣꯞ ꯅꯣꯞꯇ꯭ꯔꯕ꯭ꯔ
ꯍꯥꯏꯅꯁꯨ ꯈꯟꯖꯩ꯫ ꯑꯗꯨꯕꯨ ꯂꯥꯏꯕꯛ ꯊꯤꯕꯗꯤ
ꯃꯤꯑꯣꯏ ꯈꯔꯒꯤ ꯈꯨꯗꯣꯡꯆꯥꯅꯕꯒꯤꯗꯃꯛ, ꯄꯩꯁꯥ
ꯇꯥꯟꯅꯕ ꯅꯠꯇ꯭ꯔꯒ ꯅꯨꯡꯉꯥꯏꯕꯒꯤꯗꯃꯛ ꯃꯦꯂꯥ
ꯑꯃ ꯄꯥꯡꯊꯣꯛꯅꯕ ꯀꯛꯆꯤꯡ ꯁꯨꯃꯥꯛꯂꯩꯀꯥꯏꯗ
ꯁꯤꯜꯂꯛꯂꯤꯕꯁꯤꯅꯤ꯫ ꯀꯔꯤ ꯃꯃꯤꯡ ꯀꯧꯕ ꯀꯅꯥꯅ
ꯁꯤꯟꯕꯅꯣ ꯍꯥꯏꯕꯁꯨ ꯈꯪꯗꯦ꯫ ꯃꯁꯤ ꯈꯨꯠꯅ ꯁꯥꯕ
ꯂꯩꯇꯦꯡ ꯅꯠꯇ꯭ꯔꯒ ꯁꯤꯖꯤꯟꯅꯕ ꯄꯣꯠ ꯌꯣꯟꯕ
ꯃꯦꯂꯥꯁꯨ ꯅꯠꯇꯦ, ꯐꯤ-ꯔꯣꯜ, ꯂꯩ, ꯕꯣꯟꯁꯥꯏꯒꯨꯝꯕꯒꯤ
ꯃꯦꯂꯥꯁꯨ ꯅꯠꯇꯦ꯫ ꯃꯁꯤ ꯂꯩꯀꯥꯏꯁꯤꯒꯤ ꯃꯅꯨꯡꯗ ꯂꯩꯕ
ꯀ꯭ꯂꯕ ꯅꯠꯇ꯭ꯔꯒ ꯑꯣꯔꯒꯅꯥꯏꯖꯦꯁꯟ ꯅꯠꯇ꯭ꯔꯒ
ꯑꯦꯟ ꯖꯤ ꯑꯣ ꯒꯨꯝꯕ ꯑꯃꯅ ꯁꯤꯟꯕ ꯃꯥꯜꯂꯤ
ꯅꯠꯇ꯭ꯔꯒ ꯃꯈꯣꯏꯒꯤ ꯑꯌꯥꯕ ꯑꯃ ꯌꯥꯎꯔꯝꯒꯗ꯭ꯔ
ꯅꯤꯡꯉꯤ꯫ ꯃꯁꯤ ꯃꯍꯩꯔꯣꯏꯁꯤꯡꯒꯤ ꯌꯦꯡꯂꯒ
ꯊꯨꯅ ꯍꯟꯗꯣꯛꯐꯝ ꯊꯣꯛꯄ꯭ꯔ ꯍꯥꯏꯅ ꯈꯜꯂꯤ꯫
ꯑꯇꯣꯞꯄ ꯑꯃꯔꯣꯝꯗꯅ, ꯃꯦꯂꯥꯒꯤ ꯅꯃꯥꯗ
ꯖ꯭ꯋꯥꯔꯒꯤ ꯈꯦꯅꯐꯝ ꯀꯌꯥꯁꯨ ꯌꯥꯎꯔꯛꯀꯅꯤ
ꯈꯜꯂꯤ꯫ ꯃꯁꯤꯅ ꯅꯨꯄꯥ ꯅꯨꯄꯤ ꯑꯝꯥꯡ ꯑꯍꯜ
ꯍꯨꯞꯇꯨꯅ (ꯃꯔꯨꯑꯣꯏꯅ ꯃꯁꯤꯗ ꯉꯥꯎꯖꯕꯁꯤꯡ) \
ꯥꯎꯁꯤꯜꯂꯛꯀꯗꯧꯔꯤꯕꯅꯤ꯫ ꯃꯌꯥꯏ ꯀꯥꯕ ꯆꯤꯟꯖꯥꯛ
ꯆꯥꯁꯤꯜꯂꯒ, ꯒꯨꯂꯤ ꯌꯣꯠꯁꯤꯜꯂꯒ ꯅꯠꯇ꯭ꯔꯒ
ꯌꯨꯅꯆꯤꯡꯕ ꯁꯤꯖꯤꯟꯅꯔꯒ ꯃꯦꯂꯥ ꯃꯐꯝꯗ
ꯑꯣꯟꯁꯤꯜꯂꯒꯗꯧꯔꯤꯕꯅꯤ꯫ ꯑꯗꯨꯅ ꯄꯥꯝꯗꯕ
ꯊꯧꯗꯣꯛ ꯊꯣꯛꯂꯣꯏ ꯍꯥꯏꯕꯁꯨ ꯉꯝꯗꯦ꯫ ꯃꯔꯤ ꯂꯩꯅꯕ
ꯀꯛꯆꯤꯡ ꯁꯕꯗꯤꯚꯤꯖꯟꯒꯤ ꯑꯣꯊꯣꯔꯤꯇꯤꯅꯁꯨ
ꯑꯀꯟꯕ ꯃꯤꯠꯌꯦꯡ ꯆꯪꯕꯤꯅꯕ ꯅꯣꯜꯂꯨꯛꯆꯔꯤ꯫
ꯂꯩꯀꯥꯏꯁꯤꯗ ꯂꯩꯔꯤꯕ ꯀ꯭ꯂꯕ, ꯃꯩꯔꯥ ꯄꯥꯏꯕꯤ
ꯑꯃꯗꯤ ꯑꯇꯩ ꯑꯣꯔꯒꯅꯥꯏꯖꯦꯁꯟꯁꯤꯡꯅꯁꯨ ꯃꯁꯤ
ꯊꯤꯡꯕꯤꯅꯕ ꯍꯣꯠꯅꯍꯟꯅꯤꯡꯉꯤ꯫ ꯑꯔꯣꯏꯕ
ꯑꯣꯏꯅ ꯊꯝꯖꯅꯤꯡꯕꯗꯤ, ꯀꯛꯆꯤꯡꯈꯛꯇ ꯅꯠꯇꯅ
ꯑꯇꯩ ꯃꯐꯝꯁꯤꯡꯗꯁꯨ ꯍꯧꯖꯤꯛꯀꯤ ꯆꯤꯔꯕ ꯇꯥꯟꯐꯝ
ꯑꯁꯤꯒꯨꯝꯕ ꯃꯈꯜꯒꯤ ꯃꯦꯂꯥꯁꯤ ꯇꯧꯍꯟꯅꯤꯡꯗꯦ꯫
ꯃꯍꯩꯔꯣꯏꯁꯤꯡꯒꯤ ꯌꯦꯡꯂꯒ ꯑꯝꯃꯤꯛꯅ ꯏꯁꯩ-
ꯅꯣꯡꯃꯥꯏ ꯂꯦꯞꯀꯅꯤ ꯍꯥꯏꯅ ꯄꯨꯛꯆꯦꯜ ꯁꯦꯡꯅ
ꯂꯥꯎꯊꯣꯛꯈꯤꯕꯒꯨꯝ, ꯃꯦꯂꯥ ꯁꯤꯟꯕꯤꯔꯤꯕꯁꯤꯡꯁꯨ
ꯈꯔ ꯄꯨꯛꯆꯦꯜ ꯆꯥꯎꯍꯟꯅꯤꯡꯉꯤ꯫
ꯑꯗꯣꯝꯒꯤ, ꯃꯌꯥꯡꯂꯝꯕꯝ ꯁꯔꯠꯆꯟꯗ꯭ꯔ
ꯁꯤꯡꯍ, ꯀꯛꯆꯤꯡ ꯁꯨꯃꯥꯛ ꯂꯩꯀꯥꯏ
ꯂꯧꯎ -ꯁꯤꯡꯎꯒꯤ ꯋꯥꯍꯪ ꯄꯥꯎꯈꯨꯝ
1. ꯂꯧꯎ ꯁꯤꯡꯎ ꯂꯣꯏꯁꯪꯅ ꯌꯦꯟꯕꯤꯔꯛꯄ ꯜꯧꯖꯍꯔꯃꯃꯦ 10%

ꯑꯃꯁꯨꯡ Achook ꯐꯪꯖꯍꯧꯏ꯫ ꯜꯧꯖꯍꯔꯃꯃꯦ ꯗ ꯀꯣꯕꯤ ꯑꯃꯁꯨꯡ ꯀꯣꯕꯤ ꯊꯝꯆꯦꯠ ꯌꯦꯛꯏ꯫ ꯀꯔꯝꯅ ꯁꯤꯖꯤꯟꯅꯒꯗꯒꯦ ꯍꯥꯏꯕꯗꯨ ꯃꯨꯟꯅ ꯈꯪꯖꯍꯧꯗ꯭ꯔꯦ꯫

ꯄꯣꯠꯂꯝ ꯑꯅꯤ ꯑꯁꯤꯒꯤ ꯁꯤꯖꯤꯟꯅꯐꯝ ꯑꯃꯁꯨꯡ ꯁꯤꯖꯤꯟꯅꯕꯒꯤ ꯃꯑꯣꯡꯗꯨ
ꯈꯪꯖꯒꯦ?

ꯈꯨꯔꯥꯏꯖꯝ ꯏꯕꯦꯝꯄꯤꯁꯛ ꯗꯦꯕꯤ, ꯌꯨꯝꯅꯥꯝ ꯍꯨꯏꯗ꯭ꯔꯣꯝ - ꯜꯧꯖꯍꯔꯃꯃꯦ ꯗ ꯌꯥꯎꯔꯤꯕ, ꯇꯤꯜꯁꯤꯡꯕꯨ ꯅꯥꯍꯟꯕ ꯉꯝꯕ
ꯀꯣꯛꯐꯥꯏꯁꯤꯡꯅ ꯀꯣꯕꯤ ꯇꯤꯜꯕꯨ ꯅꯥꯍꯟꯕ ꯉꯝꯃꯤ꯫ ꯃꯤꯑꯣꯏꯕꯤ
ꯍꯛꯆꯥꯡꯗꯤ ꯁꯣꯛꯍꯟꯗꯦ꯫ ꯇꯤꯜꯁꯤꯡ ꯅꯥꯍꯜꯂꯒ ꯍꯥꯠꯅꯕꯒꯤꯗꯃꯛ
ꯜꯧꯖꯍꯔꯃꯃꯦ ꯃꯤꯂꯤꯂꯤꯇꯔ ꯑꯅꯤ ꯏꯁꯤꯡ ꯂꯤꯇꯔ ꯈꯨꯗꯤꯡꯗ ꯌꯥꯜꯂꯒ
ꯄꯥꯝꯕꯤꯒꯤ ꯃꯅꯥꯁꯤꯡ ꯆꯣꯠꯅꯕ ꯀꯥꯞꯊꯣꯛꯀꯅꯤ꯫ ꯅꯨꯡꯊꯤꯜꯒꯤ ꯃꯇꯝꯗ
ꯀꯥꯞꯄꯅ ꯍꯦꯟꯅ ꯐꯩ꯫ Achook ꯅꯤꯝꯗꯒꯤ ꯁꯨꯡꯕ ꯍꯤꯗꯥꯛꯅꯤ꯫ ꯇꯤꯜꯁꯤꯡ ꯍꯥꯠꯄ ꯉꯝꯃꯤ꯫ ꯍꯥꯠꯄ ꯉꯝꯍꯧꯗꯕꯁꯤꯡꯗꯨꯁꯨ ꯃꯐꯝꯗꯨꯗ
ꯂꯩꯍꯟꯗꯦ, ꯇꯥꯟꯊꯣꯛꯄ ꯉꯝꯃꯤ꯫

2. ꯆꯍꯤ ꯆꯨꯞꯄ ꯑꯌꯥꯝꯕ ꯄꯥꯝꯕꯤꯁꯤꯡꯒꯤ ꯃꯅꯥ ꯑꯁꯨꯡ ꯃꯎꯗ ꯀꯣꯛꯐꯥꯏ ꯑꯉꯧꯕ ꯃꯥꯟꯕ ꯇꯤꯜꯀꯨꯞ ꯃꯌꯥꯝ ꯑꯃ ꯇꯥꯁꯤꯜꯂꯤ ꯌꯨꯝ ꯑꯃꯁꯨꯡ
ꯐꯥꯝꯒꯤ ꯑꯀꯣꯏꯕꯗ ꯍꯧꯔꯤꯕ ꯄꯥꯝꯕꯤ ꯑꯌꯥꯝꯕꯗ ꯇꯥꯁꯤꯜꯂꯤ꯫ ꯀꯔꯝꯅ
ꯐꯍꯟꯒꯗꯒꯦ?

ꯂꯩꯐ꯭ꯔꯥꯛꯄꯝ ꯕꯤꯃꯣꯂꯥ ꯗꯦꯕꯤ, ꯐꯥꯔꯃꯔꯁ ꯀ꯭ꯂꯕ ꯋꯨꯃꯟ -ꯜꯅꯃꯦꯧ bug/Wooly aphid ꯍꯥꯏꯅ ꯈꯪꯅꯕ ꯇꯤꯜꯅ ꯇꯥꯁꯤꯟꯕꯅꯤ꯫
ꯇꯤꯜꯁꯤ ꯄꯥꯝꯕꯤ ꯃꯈꯜ ꯀꯌꯥꯗ ꯇꯥꯁꯤꯟꯕ ꯉꯝꯃꯤ꯫ Polyphagous
ꯑꯣꯏ꯫ Dichlorovor 76% ꯃꯤꯂꯤꯂꯤꯇꯔ ꯇꯔꯦꯠ ꯏꯁꯤꯡ ꯂꯤꯇꯔ
25 ꯈꯨꯗꯤꯡꯗ ꯌꯥꯜꯂꯒ ꯀꯥꯞꯊꯣꯛꯀꯅꯤ ꯅꯠꯇ꯭ꯔꯒ ꯈꯩꯡꯗꯍꯀꯃꯛ 45%
ꯃꯤꯂꯤꯂꯤꯇꯔ 2.5 ꯏꯁꯤꯡ ꯂꯤꯇꯔ 15 ꯈꯨꯗꯤꯡꯗ ꯌꯥꯜꯂꯒ ꯀꯥꯞꯊꯣꯛꯀꯅꯤ꯫

ꯍꯤꯗꯥꯛ ꯀꯥꯞꯂꯕ ꯃꯇꯨꯡꯗ ꯆꯤꯊ-ꯅꯥꯟꯊꯍꯧꯕꯁꯤꯡ ꯇꯣꯏꯅ ꯌꯦꯡꯁꯤꯟꯒꯅꯤ꯫
ꯅꯨꯃꯤꯠ ꯃꯉꯥꯅꯤ ꯈꯨꯗꯤꯡꯒꯤ ꯑꯋꯥꯠꯄ ꯁꯦꯡꯗꯕ ꯃꯐꯝꯁꯤꯡꯗꯨ ꯑꯃꯨꯛ ꯍꯟꯅ
ꯀꯥꯞꯊꯣꯛꯀꯅꯤ꯫
ꯃꯄꯥꯟ ꯂꯝꯗ ꯇꯤꯜꯁꯤ ꯂꯥꯛꯁꯤꯟꯅꯕ Biocontrol agent ꯃꯌꯥꯝ
ꯑꯃ ꯄꯨꯊꯣꯛꯅꯔꯕꯁꯨ ꯏꯔꯝꯗꯝ ꯑꯁꯤꯗꯗꯤ ꯃꯥꯏ ꯄꯥꯛꯇ꯭ꯔꯤ꯫
3. ꯉꯥꯌꯣꯛ ꯄꯨꯈ꯭ꯔꯤ ꯑꯃꯁꯨꯡ ꯍꯤꯡꯒꯣꯜꯒꯤ ꯄꯜꯂꯤꯗ ꯂꯐꯨ ꯃꯈꯜ ꯀꯌꯥ
ꯄꯔꯦꯡ ꯑꯣꯏꯅ ꯊꯥꯖꯩ꯫ ꯍꯟꯗꯛꯇꯤ ꯂꯥꯒꯤ ꯂꯥꯈꯣꯛꯇ ꯇꯦꯛꯊꯗꯨꯅ ꯂꯥꯁꯤꯡꯗꯨ
ꯌꯥꯟ ꯌꯥꯟꯗꯨꯅ ꯂꯩꯔꯦ꯫ ꯀꯔꯤ ꯇꯧꯕ ꯌꯥꯕꯒꯦ? ꯁꯤꯅꯥꯝ ꯁꯅꯥꯌꯥꯏ ꯁꯤꯡꯍ, ꯀꯛꯆꯤꯡ ꯈꯨꯅꯧ

- ꯂꯐꯨ ꯃꯔꯨꯗꯨ ꯁꯦꯜꯂꯩꯅꯅ (450

) ꯏꯟꯆꯤ ꯑꯍꯨꯝ ꯂꯨꯅ ꯑꯃꯁꯨꯡ ꯏꯟꯆꯤ
ꯑꯃ ꯄꯥꯛꯅ ꯍꯨꯠꯂꯒ ꯍꯤꯗꯥꯛ ꯍꯥꯞꯁꯤ꯫ Carbendazim 50% ꯒ꯭ꯔꯥꯝ
20 ꯏꯁꯤꯡ ꯂꯤꯇꯔ 25 ꯗ ꯌꯥꯟꯁꯤꯜꯂꯒ ꯑꯍꯣꯕꯗꯨꯗ ꯍꯥꯞꯁꯤ ꯅꯨꯃꯤꯠ
ꯍꯨꯝꯅꯤ ꯍꯨꯝꯅꯤ ꯀꯥꯟꯅꯔꯒ ꯑꯍꯨꯝ ꯃꯔꯤꯔꯛ ꯍꯥꯞꯁꯤ꯫ ꯁ꯭ꯄꯦꯌꯔꯅ ꯍꯤꯗꯥꯛ
ꯀꯥꯞꯄꯅꯗꯤ ꯊꯣꯏꯅ ꯀꯥꯟꯅꯔꯣꯏ꯫

4. ꯑꯥꯂꯨ ꯃꯅꯥ ꯑꯌꯥꯝꯕ ꯃꯨꯁꯤꯜꯂꯒ ꯀꯪꯁꯤꯜꯂꯛꯏ꯫ ꯃꯎꯁꯨ ꯈꯔ ꯃꯨꯁꯤꯟꯅ BT! ꯀꯪꯂꯕ ꯃꯅꯥꯁꯤꯡ ꯄꯥꯏꯕꯗ ꯀꯦꯝꯃꯤ꯫ ꯃꯨꯁꯤꯟꯕ
ꯍꯧꯔꯛꯂꯤꯕ ꯃꯅꯥꯁꯤꯡꯗꯨꯗꯤ ꯌꯥꯝꯅ FOG ꯅꯧꯏ꯫ ꯍꯤꯗꯥꯛ ꯌꯣꯟꯐꯝꯁꯤꯡꯗ
ꯍꯪꯕꯗ ꯍꯤꯗꯥꯛ ꯑꯃꯠꯇ ꯃꯥꯟꯅꯗꯅ ꯍꯥꯏꯔꯛꯏ꯫ ꯀꯔꯤ ꯀꯥꯞꯀꯗꯕꯒꯦ
ꯈꯪꯅꯤꯡꯏ꯫
ꯋꯥꯏꯈꯣꯝ ꯖꯩꯆꯟꯗ꯭ꯔꯤ ꯁꯤꯡꯍ, ꯊꯧꯕꯥꯜ
ꯂꯥꯟꯅꯥꯗꯨ Late Blight ꯅꯤ ꯃꯈꯜ ꯀꯌꯥꯒꯤ ꯍꯤꯗꯥꯛ ꯁꯤꯖꯤꯟꯅꯕ ꯌꯥꯏ꯫
ꯃꯔꯝ ꯑꯗꯨꯅ ꯃꯥꯟꯅꯗꯅ ꯎꯔꯤꯕꯅꯤ꯫ Mancozeb ꯑꯃꯁꯨꯡ Metalaxyl
ꯒꯤ ꯑꯄꯨꯟꯕ ꯍꯤꯗꯥꯛ ꯒ꯭ꯔꯥꯝ 30 ꯏꯁꯤꯡ ꯂꯤꯇꯔ 15 ꯈꯨꯗꯤꯡꯗ ꯌꯥꯜꯂꯒ
ꯃꯅꯥꯒꯤ ꯃꯊꯛ ꯃꯈꯥ ꯑꯅꯤꯃꯛ ꯆꯣꯠꯅꯕ ꯀꯥꯞꯊꯣꯛꯁꯤ꯫

ꯂꯧꯃꯤꯁꯤꯡꯒꯤ ꯀꯥꯈꯜ
ꯇꯤꯜ ꯆꯥꯔꯕ ꯑꯃꯁꯨꯡ ꯇꯤꯜ ꯌꯥꯎꯕ ꯌꯦꯟꯁꯥꯡ ꯅꯥꯄꯤ ꯇꯤꯜ ꯍꯤꯗꯥꯛ ꯀꯥꯞꯇꯦ
ꯈꯟꯅꯩ꯫ ꯑꯗꯨꯃꯛꯇꯤ ꯅꯠꯇꯦ꯫ ꯇꯔꯥꯔꯛ ꯍꯟꯅ ꯇꯤꯜ ꯍꯤꯗꯥꯛ ꯀꯥꯞꯂꯕꯁꯨ
ꯆꯥꯟꯅꯗꯕ ꯍꯤꯗꯥꯛ ꯑꯣꯏꯔꯕꯗꯤ ꯇꯤꯜ ꯁꯤꯔꯣꯏ꯫ ꯍꯤꯗꯥꯛꯀꯤ ꯂꯦꯝꯈꯥꯛ
ꯂꯩꯍꯧꯕꯗꯨꯅ ꯍꯛꯆꯥꯡ ꯑꯗꯨꯝ ꯁꯣꯛꯅꯤꯡꯉꯥꯏ ꯑꯣꯏ꯫
ꯀꯣꯕꯤꯗ ꯗꯥꯏꯃꯟꯗ ꯕꯦꯛ ꯃꯣꯊ ꯂꯥꯛꯅꯕ ꯉꯝꯕ ꯍꯤꯗꯥꯛꯀꯤ ꯃꯁꯤꯡ ꯌꯥꯝꯗꯦ꯫

ꯑꯆꯨꯝꯕ ꯍꯤꯗꯥꯛ ꯀꯥꯞꯂꯒꯗꯤ ꯑꯃꯨꯛ ꯀꯥꯞꯄꯗ ꯐꯒꯅꯤ꯫ ꯍꯛꯆꯥꯡ ꯁꯦꯛꯂꯣꯏ꯫
ꯑꯔꯥꯟꯕ ꯍꯤꯗꯥꯛ 10 ꯔꯛ ꯀꯥꯞꯂꯕꯁꯨ ꯇꯤꯜ ꯁꯤꯔꯣꯏ꯫ ꯍꯤꯗꯥꯛ ꯃꯌꯥꯝ ꯑꯃꯗꯤ
ꯆꯦꯟꯅꯔꯛꯄ ꯌꯥꯏ꯫

ꯈꯣꯏꯗꯧ ꯀꯛꯄ ꯃꯆꯥ ꯂꯩꯅꯕꯒꯤ ꯃꯀꯣꯟ ꯁꯦꯝꯕ ꯑꯣꯛꯅꯥꯎ ꯃꯁꯥ ꯁꯦꯝꯕ ꯃꯌꯥ ꯀꯛꯄ
ꯑꯦꯒ꯭ꯔꯤ ꯀꯜꯆꯔꯦꯜ ꯁꯦꯛꯁꯦꯟ- ꯍꯨꯏꯌꯦꯟ ꯂꯥꯟꯄꯥꯎ
(ꯐꯥꯔꯃꯔꯁꯤꯡꯅ ꯂꯧꯎ-ꯁꯤꯡꯎꯒ ꯃꯔꯤ ꯂꯩꯅꯅ, ꯉꯥ, ꯁꯥ-ꯁꯟ
ꯌꯣꯛꯄꯅꯆꯤꯡꯕꯒ ꯃꯔꯤ ꯂꯩꯅꯕ ꯋꯥꯍꯪꯁꯤꯡ ꯄꯣꯁꯠ
ꯀꯥꯔꯗꯇ ꯏꯔꯒ ꯊꯥꯕꯤꯔꯛꯎ꯫)
ꯀꯔꯤꯒꯤ ꯑꯦꯟꯁꯥꯡ ꯅꯥꯄꯤ ꯂꯩꯕꯗ ꯇꯤꯜ ꯆꯥꯕ ꯈꯟꯕ ꯈꯟꯒꯗꯧꯔꯤꯕꯅꯣ?