ꯑꯦꯗꯤꯇꯣꯔꯤꯌꯦꯜ IMPHAL, MONDAY, JANUARY 25, 2021 ꯅꯤꯡꯊꯧꯀꯥꯕ, ꯋꯥꯛꯆꯤꯡꯒꯤ 12ꯅꯤ ꯄꯥꯟꯕ, ꯃꯥꯂꯤꯌꯥ ꯀꯨꯝꯁꯤꯡ 3418 obT\ꯂꯩ ꯃꯀꯩꯋ꯭ꯀ
2 HUEIYEN LANPAO

ꯍꯨꯏꯌꯦꯟ ꯂꯥꯟꯄꯥꯎ
ꯅꯤꯡꯊꯧꯀꯥꯕ, ꯖꯅ꯭ꯌꯨꯋꯥꯔꯤ 25, 2021, ꯏꯝꯐꯥꯜ
12 ꯁꯨꯕ ꯆꯍꯤ, 271 ꯁꯨꯕ ꯃꯁꯤꯡ
ꯄꯥꯎꯆꯦ ꯑꯁꯤꯗ ꯐꯣꯡꯖꯔꯤꯕ ꯋꯥꯔꯦꯡꯁꯤꯡ ꯑꯁꯤꯒꯤ ꯋꯥꯈꯜ, ꯃꯤꯠꯌꯦꯡ ꯑꯏꯕ ꯃꯁꯥ ꯃꯁꯥꯒꯤꯅꯤ꯫ ꯄꯥꯎꯆꯦ ꯑꯁꯤꯒ ꯄꯥꯎꯆꯦ ꯑꯁꯤꯒꯤ ꯋꯥꯈꯜꯂꯣꯟ ꯑꯃꯁꯨꯡ ꯃꯤꯠꯌꯦꯡꯒ ꯊꯣꯏꯗꯣꯛꯅ ꯃꯔꯤ ꯂꯩꯅꯗꯦ꯫

ꯏ-ꯋꯦꯁꯠ ꯃꯦꯅꯦꯖꯃꯦꯟꯠ
ꯂꯩꯉꯥꯛꯀꯤ ꯃꯔꯤ ꯂꯩꯅꯕꯁꯤꯡꯅ ꯃꯇꯤꯛ ꯆꯥꯕ ꯊꯧꯔꯥꯡ ꯄꯥꯏꯈꯠꯄ ꯃꯊꯧ ꯇꯥꯔꯤ
ꯃꯤꯑꯣꯏꯕꯒꯤ ꯍꯛꯁꯦꯜꯗ ꯈ꯭ꯋꯥꯏꯗꯒꯤ ꯆꯥꯎꯅ ꯑꯀꯥꯏꯕ ꯊꯣꯛꯍꯜꯂꯛꯂꯤꯕꯁꯤꯡꯒꯤ ꯃꯅꯨꯡꯗ ꯑꯃꯣꯠ-ꯑꯀꯥꯏ ꯃꯐꯝ ꯆꯥꯅ ꯂꯣꯏꯁꯤꯟꯗꯕ ꯍꯥꯏꯕꯁꯤꯁꯨ ꯑꯃꯅꯤ ꯍꯥꯏꯕ ꯌꯥꯏ꯫ ꯅꯨꯃꯤꯠ
ꯈꯨꯗꯤꯡꯒꯤ ꯁꯤꯖꯤꯟꯅꯕ ꯂꯣꯏꯔꯒ ꯌꯨꯝꯊꯣꯡ ꯈꯨꯗꯤꯡꯃꯛꯇꯒꯤ ꯂꯪꯊꯣꯔꯛꯄ ꯑꯃꯣꯠ-ꯑꯀꯥꯏꯁꯤꯡ
ꯑꯁꯨꯝ-ꯑꯁꯨꯝ ꯄꯩꯁꯤꯜꯂꯛꯂꯕꯗꯤ ꯃꯍꯤꯛ-ꯃꯇꯥꯏ ꯆꯦꯜꯂꯛꯇꯨꯅ ꯂꯥꯏꯅꯥ ꯀꯌꯥ ꯄꯣꯛꯍꯜꯂꯛꯅꯕꯒꯤ
ꯃꯔꯝ ꯑꯣꯏꯔꯛꯄ ꯌꯥꯏ꯫ ꯏꯝꯐꯥꯜ ꯃ꯭ꯌꯨꯅꯤꯁꯤꯄꯥꯜ ꯀꯣꯔꯄꯣꯔꯦꯁꯟꯅ ꯂꯟꯅꯥꯏ ꯑꯦꯟ ꯖꯤ ꯑꯣ ꯈꯔꯒꯤ
ꯈꯨꯠꯊꯥꯡꯗ ꯌꯨꯝꯊꯣꯡ ꯈꯨꯗꯤꯡꯗꯒꯤ ꯑꯃꯣꯠ-ꯑꯀꯥꯏ ꯈꯣꯝꯒꯠꯄꯒꯤ ꯊꯧꯔꯥꯡ ꯂꯧꯈꯠꯂꯕꯁꯨ ꯋꯦꯁꯠ
ꯃꯦꯅꯦꯖꯃꯦꯟꯠꯀꯤ ꯃꯇꯤꯛ ꯆꯥꯕ ꯊꯧꯁꯤꯜ ꯑꯃ ꯂꯩꯇꯕꯒꯨꯝ ꯇꯧꯔꯤ꯫ ꯑꯃꯣꯠ-ꯑꯀꯥꯏ ꯈꯣꯝꯒꯠꯂꯒ
ꯀꯥꯟꯅꯕ ꯃꯑꯣꯡꯗ ꯁꯤꯖꯤꯟꯅꯗꯨꯅ ꯔꯤꯁꯥꯏꯀꯜ ꯇꯧꯕ ꯅꯠꯇ꯭ꯔꯒ ꯕꯥꯏꯑꯣ ꯐꯔꯇꯤꯂꯥꯏꯖꯔꯅꯆꯤꯡꯕ
ꯁꯦꯝꯅꯕꯒꯤ ꯃꯇꯤꯛ ꯆꯥꯕ ꯊꯧꯁꯤꯜ ꯂꯩꯇꯕꯅ ꯃꯔꯛ ꯃꯔꯛꯇ ꯑꯃꯣꯠ-ꯑꯀꯥꯏ ꯍꯨꯟꯗꯣꯛꯐꯝꯒꯤ ꯃꯇꯥꯡꯗ
ꯎꯪꯈꯠꯅꯔꯛꯄꯒꯤ ꯃꯑꯣꯡ ꯑꯃꯁꯨ ꯍꯦꯛ-ꯍꯦꯛ ꯎꯕ ꯐꯪꯂꯤ꯫ ꯑꯃꯔꯣꯝꯗ ꯍꯤꯔꯝ ꯈꯨꯗꯤꯡꯃꯛꯇ ꯄꯥꯛ
ꯁꯟꯅ ꯁꯤꯖꯤꯟꯅꯔꯤꯕ ꯄ꯭ꯂꯥꯁꯇꯤꯛꯀꯤ ꯄꯣꯠꯂꯝꯁꯤꯡꯅꯁꯨ ꯃꯤꯑꯣꯏꯕꯒꯤ ꯍꯛꯆꯥꯡ ꯁꯣꯛꯍꯟꯅꯕꯒꯤ
ꯃꯔꯝ ꯑꯣꯏꯔꯤ꯫ ‘ꯄ꯭ꯂꯥꯁꯇꯤꯛ ꯑꯦꯟꯗ ꯍꯦꯜꯊ : ꯗ ꯍꯤꯗꯟ ꯀꯣꯁꯠ ꯑꯣꯐ ꯑꯦ ꯄ꯭ꯂꯥꯁꯇꯤꯛ ꯄ꯭ꯂꯥꯅꯦꯠ’

ꯍꯥꯏꯅ ꯃꯤꯡꯊꯣꯟꯕ ꯁ꯭ꯇꯗꯤꯒꯤ ꯔꯤꯄꯣꯔꯠ ꯑꯃꯅ ꯍꯥꯏ, ꯃꯐꯝ ꯀꯌꯥꯗ ꯄꯥꯛ ꯁꯟꯅ ꯄ꯭ꯂꯥꯁꯇꯤꯛꯀꯤ
ꯄꯣꯠꯂꯝ ꯁꯤꯖꯤꯟꯅꯔꯛꯄꯒꯤ ꯃꯇꯥꯡꯗ ꯃꯇꯤꯛ ꯆꯥꯕ ꯆꯦꯛꯁꯤꯟ ꯊꯧꯔꯥꯡ ꯂꯧꯈꯠꯍꯧꯗ꯭ꯔꯕꯗꯤ
ꯑꯆꯧꯕ ꯍ꯭ꯌꯨꯃꯦꯟ ꯍꯦꯜꯊ ꯀ꯭ꯔꯥꯏꯁꯤꯁ ꯑꯃ ꯊꯣꯛꯍꯜꯂꯛꯄ ꯌꯥꯏ꯫ ꯃꯤꯑꯣꯏ ꯀꯌꯥꯅ ꯇꯉꯥꯏꯐꯗꯕ
ꯄꯣꯠꯂꯝ ꯑꯃꯒꯨꯝ ꯍꯤꯔꯝ ꯀꯌꯥꯗ ꯄꯥꯛ ꯁꯟꯅ ꯁꯤꯖꯤꯟꯅꯔꯤꯕ ꯄ꯭ꯂꯥꯁꯇꯤꯛꯀꯤ ꯄꯣꯠꯂꯝꯁꯤꯡꯅ
ꯏꯁꯤꯡ, ꯅꯨꯡꯁꯤꯠ ꯑꯃꯗꯤ ꯂꯩꯕꯥꯛ ꯂꯩꯍꯥꯎ ꯁꯣꯛꯍꯜꯂꯛꯇꯨꯅ ꯃꯤꯑꯣꯏꯕꯗ ꯃꯈꯜ ꯀꯌꯥꯒꯤ ꯂꯥꯏꯅꯥ
ꯑꯣꯏꯍꯜꯂꯛꯄ ꯌꯥꯏ ꯍꯥꯏꯅ ꯑꯈꯪ-ꯑꯍꯩꯁꯤꯡꯅ ꯐꯣꯡꯗꯣꯛꯅꯔꯤꯕꯅꯤ꯫ ꯄ꯭ꯂꯥꯁꯇꯤꯛꯀꯤ ꯄꯣꯠꯂꯝꯁꯤꯡ
ꯁꯦꯝ-ꯁꯥꯔꯛꯄꯗꯒꯤ ꯍꯧꯔꯒ ꯁꯤꯖꯤꯟꯅꯕ ꯂꯣꯏꯗꯨꯅ ꯂꯪꯊꯣꯛꯈ꯭ꯔꯕ ꯐꯥꯎꯕꯗ ꯑꯁꯨꯛꯀꯤ ꯃꯇꯤꯛ
ꯈꯨꯗꯣꯡꯊꯤꯅꯤꯡꯉꯥꯏ ꯑꯣꯏ꯫ ꯃꯔꯨ ꯑꯣꯏꯅ ꯃꯤꯑꯣꯏꯕꯗ ꯀꯥꯔꯗꯤꯑꯣꯚꯥꯁꯀ꯭ꯌꯨꯂꯔ ꯗꯤꯖꯤꯖ, ꯀꯦꯟꯁꯔ
ꯑꯃꯗꯤ ꯑꯣꯇꯣꯏꯝꯃ꯭ꯌꯨꯟ ꯀꯟꯗꯤꯁꯟꯁꯤꯡ ꯑꯣꯏꯍꯜꯂꯛꯄ ꯌꯥꯏ ꯍꯥꯏꯔꯤ꯫ ꯄꯦꯇ꯭ꯔꯣꯀꯦꯃꯤꯀꯦꯜ
ꯄ꯭ꯂꯥꯟꯠꯁꯤꯡꯗ ꯄ꯭ꯂꯥꯁꯇꯤꯛꯀꯤ ꯄꯣꯠꯂꯝ ꯄꯨꯊꯣꯛꯄ ꯃꯇꯝꯗꯁꯨ ꯍꯛꯆꯥꯡ ꯁꯣꯛꯅꯤꯡꯉꯥꯏ ꯑꯣꯏꯕ
ꯀꯥꯔꯁꯤꯅꯣꯖꯦꯜ ꯀꯌꯥ ꯊꯥꯗꯣꯔꯛꯏ꯫ ꯍꯤꯔꯝ ꯀꯌꯥꯗ ꯃꯤꯑꯣꯏꯕꯅ ꯄ꯭ꯂꯥꯁꯇꯤꯛꯀꯤ ꯄꯣꯠꯂꯝ ꯁꯤꯖꯤꯟꯅꯕꯅ
ꯁ꯭ꯂꯣ ꯄꯣꯏꯖꯅꯤꯡꯒꯤ ꯃꯇꯧꯒꯨꯝ ꯇꯞꯅ-ꯇꯞꯅ ꯍꯛꯆꯥꯡ ꯁꯣꯛꯍꯜꯂꯛꯏ꯫ ꯁꯤꯖꯤꯟꯅꯕ ꯂꯣꯏꯔꯒ
ꯂꯪꯊꯣꯛꯈꯤꯕ ꯅꯠꯇ꯭ꯔꯒ ꯃꯩ ꯊꯥꯗꯣꯛꯈꯤꯕ ꯃꯇꯝꯗꯅ ꯑꯃꯨꯛꯀ ꯍꯦꯟꯅ ꯈꯨꯗꯣꯡꯊꯤꯅꯤꯡꯉꯥꯏ ꯑꯣꯏ ꯍꯥꯏꯅ
ꯑꯈꯪ-ꯑꯍꯩꯁꯤꯡꯅ ꯐꯣꯡꯗꯣꯛꯂꯤ꯫ ꯃꯥꯂꯦꯝꯗ ꯍꯧꯖꯤꯛ ꯃꯍꯤꯛ-ꯃꯇꯥꯏꯅ ꯊꯣꯛꯍꯟꯕ ꯅꯠꯇꯕ ꯀꯦꯟꯁꯔ,
ꯊꯝꯃꯣꯏꯒꯤ ꯂꯥꯏꯅꯥ ꯑꯃꯁꯨꯡ ꯗꯥꯏꯕꯦꯇꯤꯁꯅꯆꯤꯡꯕ ꯂꯥꯏꯅꯥ ꯅꯥꯕꯒꯤ ꯆꯥꯡ ꯋꯥꯡꯈꯠꯂꯛꯂꯤꯕꯁꯤꯒꯤ ꯃꯔꯨ
ꯑꯣꯏꯕ ꯃꯔꯝꯁꯤꯡꯒꯤ ꯃꯅꯨꯡꯗ ꯄꯥꯛ ꯁꯟꯅ ꯄ꯭ꯂꯥꯁꯇꯤꯛꯀꯤ ꯄꯣꯠꯂꯝ ꯁꯤꯖꯤꯟꯅꯕ ꯍꯥꯏꯕꯁꯤꯁꯨ
ꯑꯃꯅꯤ ꯍꯥꯏꯅ ꯂꯧꯕ ꯌꯥꯏ꯫ ꯌꯥꯝꯅ ꯁꯦꯡꯅ ꯍꯥꯏꯔꯕꯗ ꯃꯍꯤꯛ-ꯃꯇꯥꯏꯅ ꯑꯣꯏꯍꯜꯂꯛꯄ ꯂꯥꯏꯅꯥꯁꯤꯡꯗꯤ
ꯑꯐꯕ ꯃꯈꯜꯒꯤ ꯍꯤꯗꯥꯀ-ꯂꯥꯡꯊꯛ ꯆꯥꯔꯒ ꯐꯍꯟꯕ ꯉꯝꯃꯤ꯫ ꯏ-ꯋꯦꯁꯠ ꯑꯃꯁꯨꯡ ꯄ꯭ꯂꯥꯁꯇꯤꯛ
ꯋꯦꯁꯠꯅ ꯑꯣꯏꯍꯜꯂꯛꯄ ꯂꯥꯏꯅꯥꯁꯤꯡꯗꯤ ꯄꯨꯟꯁꯤ ꯆꯨꯞꯄ ꯁꯥꯒꯣꯟꯅꯗꯨꯅ ꯂꯩꯒꯗꯕ ꯃꯔꯝꯅ ꯍꯤꯔꯝꯁꯤꯗ
ꯑꯈꯟꯅꯕ ꯃꯤꯠꯌꯦꯡ ꯆꯪꯐꯝ ꯊꯣꯛꯂꯦ꯫

ꯃꯤꯑꯣꯏ ꯀꯌꯥꯅ ꯁꯤꯖꯤꯟꯅꯕ ꯌꯥꯗꯕꯗꯒꯤ ꯂꯪꯊꯣꯔꯛꯄ ꯏꯂꯦꯛꯇ꯭ꯔꯣꯅꯤꯛꯀꯤ ꯑꯣꯏꯕ ꯄꯣꯠꯂꯃꯁꯤꯡ
ꯃꯐꯝ ꯆꯥꯅ ꯂꯣꯏꯁꯤꯟꯅꯕ ꯊꯧꯔꯥꯡ ꯂꯧꯈꯠꯇꯕꯅ ꯃꯤꯑꯣꯏꯕꯒꯤ ꯍꯛꯁꯦꯜꯗ ꯑꯃꯁꯨꯡ ꯑꯀꯣꯏꯕꯒꯤ
ꯏꯁꯤꯡ-ꯅꯨꯡꯁꯤꯠꯇ ꯆꯥꯎ ꯑꯀꯥꯏꯕ ꯊꯣꯛꯍꯜꯂꯛꯄ ꯌꯥꯕꯒꯤ ꯐꯤꯚꯝꯗ ꯂꯩꯔꯤ꯫ ꯆꯥꯎꯈꯠꯂꯛꯄꯒꯤ
ꯃꯇꯨꯡ ꯏꯟꯅ ꯇꯦꯀ꯭ꯅꯣꯂꯣꯖꯤꯒꯤ ꯑꯍꯣꯡꯕ ꯀꯌꯥ ꯂꯩꯕꯗꯒꯤ ꯌꯨꯝꯊꯣꯡ ꯈꯨꯗꯤꯡꯗ ꯏꯂꯦꯛꯇ꯭ꯔꯣꯅꯤꯛꯀꯤ
ꯄꯣꯠꯂꯝ ꯁꯤꯖꯤꯟꯅꯕꯒꯤ ꯆꯥꯡ ꯋꯥꯡꯂꯤ꯫ ꯏꯂꯦꯛꯇ꯭ꯔꯣꯅꯤꯛꯀꯤ ꯄꯣꯠꯂꯝꯁꯤꯡ ꯁꯥꯕꯗ ꯁꯤꯖꯤꯟꯅꯔꯛꯄ
ꯀꯦꯃꯤꯀꯦꯜꯁꯤꯡ ꯂꯣꯏꯅꯅ ꯃꯔꯀ꯭ꯌꯨꯔꯤ, ꯀꯦꯗꯃꯤꯌꯝ ꯑꯃꯗꯤ ꯂꯦꯗꯅꯆꯤꯡꯕ ꯄꯨꯝꯅꯃꯛ ꯑꯃꯣꯠ-ꯑꯀꯥꯏ
ꯃꯔꯛꯇ ꯌꯥꯎꯈ꯭ꯔꯒ ꯑꯀꯣꯏꯕꯒꯤ ꯏꯁꯤꯡ ꯅꯨꯡꯁꯤꯠꯇ ꯆꯥꯎꯅ ꯑꯀꯥꯏꯕ ꯊꯣꯛꯍꯜꯂꯛꯂꯤ꯫ ꯃꯤꯑꯣꯏꯕꯒꯤ
ꯍꯛꯁꯦꯜꯗꯁꯨ ꯆꯥꯎꯅ ꯁꯤꯡꯅꯔꯛꯄꯒ ꯂꯣꯏꯅꯅ ꯃꯈꯜ ꯀꯌꯥꯒꯤ ꯂꯥꯏꯅꯥ ꯑꯣꯏꯍꯜꯂꯛꯅꯕꯒꯤ ꯃꯔꯝ
ꯑꯣꯏꯔꯤ꯫ ꯁ꯭ꯇꯦꯠ ꯂꯩꯉꯥꯛꯀꯤ ꯃꯈꯥꯗ ꯂꯩꯕ ꯇꯣꯉꯥꯟ ꯇꯣꯉꯥꯟꯕ ꯂꯣꯏꯁꯪꯁꯤꯡꯗꯁꯨ ꯏ-ꯋꯦꯁꯠ ꯀꯌꯥꯃꯔꯨꯝ
ꯂꯩꯔꯤ꯫ ꯍꯥꯏꯔꯤꯕ ꯏ-ꯋꯦꯁꯠꯁꯤꯡ ꯑꯁꯤ ꯃꯐꯝ ꯆꯥꯅ ꯂꯣꯏꯁꯤꯟꯅꯕꯒꯤ ꯊꯧꯔꯥꯡ ꯊꯧꯁꯤꯜ ꯑꯃ ꯁꯦꯝꯕ
ꯎꯗ꯭ꯔꯤ꯫ ꯍꯧꯈꯤꯕ ꯅꯨꯃꯤꯠ ꯈꯔꯅꯤꯒꯤ ꯃꯃꯥꯡꯗ ꯏꯝꯐꯥꯜ ꯏꯁꯠ ꯗꯤꯁꯇ꯭ꯔꯤꯛꯠ ꯑꯦꯗꯃꯤꯅꯤꯁꯇ꯭ꯔꯦꯁꯟꯅ
ꯂꯣꯏꯁꯪ ꯑꯁꯤꯗ ꯂꯩꯕ ꯏ-ꯋꯦꯁꯠ ꯃꯐꯝ ꯆꯥꯅ ꯃꯥꯡꯍꯟꯅꯕ ꯊꯧꯔꯥꯡ ꯄꯥꯏꯈꯠꯄ ꯎꯈꯤ꯫ ꯃꯁꯤꯃꯛꯇꯤ
ꯄꯨꯛꯅꯤꯡ ꯊꯧꯒꯠꯅꯤꯡꯉꯥꯏꯅꯤ꯫ ꯑꯗꯨꯃꯛꯄꯨ ꯑꯇꯣꯞꯄ ꯂꯣꯏꯁꯪꯁꯤꯡꯗ ꯂꯩꯔꯤꯕ ꯏ-ꯋꯦꯁꯠꯁꯤꯡ ꯑꯃꯗꯤ
ꯌꯨꯝꯊꯣꯡ ꯈꯨꯗꯤꯡꯗꯒꯤ ꯊꯣꯔꯛꯂꯤꯕ ꯏ-ꯋꯦꯁꯠꯁꯤꯡ ꯃꯐꯝ ꯆꯥꯅ ꯂꯣꯏꯁꯤꯟꯅꯕ ꯂꯩꯉꯥꯛꯅ ꯑꯈꯟꯅꯕ
ꯊꯧꯔꯥꯡ ꯄꯥꯏꯈꯠꯄ ꯎꯗ꯭ꯔꯤ꯫ ꯍꯧꯖꯤꯛꯃꯛꯀꯤ ꯑꯣꯏꯅꯗꯤ ꯏ-ꯋꯦꯁꯠ ꯀꯌꯥꯁꯨ ꯁꯣꯂꯤꯗ ꯋꯦꯁꯠ ꯑꯣꯏꯅ
ꯑꯗꯨꯝ ꯂꯧꯅꯕꯒꯤ ꯃꯇꯧ ꯑꯃ ꯎꯔꯤ꯫ ꯃꯁꯤꯃꯛꯇꯤ ꯂꯥꯟꯒꯅꯤ꯫ ꯃꯍꯧꯁꯥꯒꯤ ꯈꯜ ꯑꯃꯗꯤ ꯃꯤꯑꯣꯏꯕꯒꯤ
ꯍꯛꯁꯦꯜꯗ ꯑꯀꯥꯏꯕ ꯀꯥ ꯍꯦꯟꯅ ꯄꯤꯔꯛꯇ꯭ꯔꯤꯉꯩꯗ ꯂꯩꯉꯥꯛꯀꯤ ꯃꯔꯤ ꯂꯩꯅꯕꯁꯤꯡꯅ ꯁ꯭ꯇꯦꯠ ꯑꯁꯤꯗꯁꯨ
ꯏ-ꯋꯦꯁꯠ ꯃꯐꯝ ꯆꯥꯅ ꯃꯥꯡꯍꯟꯅꯕ ꯊꯧꯔꯥꯡ ꯄꯥꯏꯈꯠꯄ ꯃꯊꯧ ꯇꯥꯔꯤ꯫

ꯂꯧꯃꯤꯁꯤꯡꯒꯤ ꯀꯥꯈꯜ
ꯕꯥꯔꯗ ꯐ꯭ꯂꯨ ꯅꯠꯇ꯭ꯔꯒ ꯑꯦꯚꯤꯋꯥꯟ ꯏꯟꯐ꯭ꯂꯨꯑꯦꯟꯖꯥ ꯍꯥꯏꯅ ꯈꯪꯅꯔꯕꯤ ꯂꯥꯏꯅ ꯃꯈꯜ ꯑꯁꯤ ꯚꯥꯏꯔꯁꯅ ꯊꯣꯛꯍꯟꯕ
ꯂꯥꯏꯅꯥ ꯃꯈꯜ ꯑꯃꯅꯤ꯫ ꯕꯥꯔꯗ ꯐ꯭ꯂꯨ ꯊꯣꯛꯍꯜꯂꯤꯕ ꯚꯥꯏꯔꯁꯁꯤ ꯃꯈꯜ ꯌꯥꯝꯃꯤ꯫ ꯈꯔ ꯑꯃꯗꯤ ꯃꯤꯑꯣꯏꯕꯗ ꯑꯀꯥꯏꯕ
ꯄꯤꯗꯦ ꯑꯗꯨꯕꯨ ꯚꯥꯏꯔꯁ ꯈꯔ ꯍꯥꯏꯕꯁꯤ

H5N1 Amdi

ꯊ7 N9 ꯗꯤ ꯃꯤꯑꯣꯏꯕꯗ ꯍꯦꯟꯅ ꯁꯥꯊꯤꯕ ꯃꯑꯣꯡꯗ ꯂꯥꯏꯅꯥ
ꯁꯟꯗꯣꯔꯛꯏ꯫ ꯏꯍꯥꯟ ꯍꯟꯅ ꯕꯥꯔꯗ ꯐ꯭ꯂꯨꯒꯤ ꯂꯥꯏꯑꯣꯡꯁꯤ ꯆꯥꯏꯅꯥꯒꯤ ꯒ꯭ꯋꯥꯡꯖꯧ ꯄ꯭ꯔꯣꯚꯤꯟꯁꯇ ꯌꯥꯝꯅ ꯁꯥꯊꯤꯔꯕ
ꯃꯍꯤꯛ ꯃꯈꯜ
ꯊ5N1 ꯚꯥꯏꯔꯁꯁꯤ ꯌꯨꯝꯗ ꯌꯣꯛꯄ ꯀꯥꯡꯉꯥꯗꯒꯤ ꯑꯥꯏꯁꯣꯂꯦꯠ ꯇꯧꯏ꯫ ꯏꯟꯗꯤꯌꯥꯗꯅ ꯕꯥꯔꯗ ꯐ꯭ꯂꯨꯁꯤ
ꯏꯍꯥꯟ ꯍꯥꯟꯅ ꯃꯍꯥꯔꯥꯁꯇ꯭ꯔꯒꯤ ꯅꯟꯗꯨꯕꯥꯔ ꯗꯤꯁꯇ꯭ꯔꯤꯛꯇ ꯀꯨꯝꯖꯥ 2006ꯒꯤ ꯐꯦꯕ꯭ꯔꯨꯋꯥꯔꯤ 16 ꯇ ꯊꯣꯛꯄ ꯍꯧꯔꯛꯏ꯫

ꯕꯥꯔꯗ ꯐ꯭ꯂꯨ ꯊꯣꯛꯍꯜꯂꯤꯕ ꯃꯍꯤꯛꯁꯤꯡꯁꯤ ꯂꯝꯂꯛꯀꯤ ꯎꯆꯦꯛꯁꯤꯡꯗ ꯃꯁꯥꯗ ꯌꯥꯎꯔꯒ ꯂꯩꯕꯅ ꯃꯈꯣꯏꯅ
ꯌꯨꯝꯗ ꯌꯣꯛꯂꯤꯕ ꯌꯦꯟ ꯉꯥꯅꯨꯁꯤꯡꯒꯤ ꯃꯆꯤꯟꯖꯥꯛ ꯑꯃꯗꯤ ꯏꯁꯤꯡꯗ ꯀꯟꯇꯥꯃꯤꯅꯦꯠ ꯇꯧꯗꯨꯅ ꯌꯦꯟ ꯉꯥꯅꯨꯁꯤꯡꯅ
ꯆꯥꯁꯤꯟꯗꯨꯅ ꯂꯥꯏꯅꯥꯁꯤ ꯁꯟꯗꯣꯔꯛꯏ꯫ ꯃꯁꯤꯗꯁꯨ ꯅꯠꯇꯅ ꯃꯍꯤꯛ ꯆꯦꯜꯂꯕ ꯎꯆꯦꯛꯁꯤꯡꯅ ꯃꯐꯝ ꯑꯃꯗꯒꯤ ꯃꯐꯝ
ꯑꯃꯗ ꯆꯠꯊꯣꯛ ꯆꯠꯁꯤꯟ ꯇꯧꯕꯗ ꯅꯠꯇ꯭ꯔꯒ ꯑꯅꯥꯕ ꯌꯦꯟ ꯉꯥꯅꯨꯁꯤꯡ ꯄꯨꯕ ꯒꯥꯔꯤꯗ ꯂꯩꯍꯧꯔꯤꯕ ꯃꯍꯤꯛꯁꯤꯡꯁꯤ
ꯃꯐꯝ ꯑꯃꯗꯒꯤ ꯑꯃꯗ ꯁꯟꯗꯣꯔꯀꯄꯗ ꯑꯆꯧꯕ ꯃꯇꯦꯡ ꯄꯥꯡꯏ꯫ ꯃꯅꯤꯄꯨꯔꯗꯁꯨ ꯏꯍꯥꯟ ꯍꯥꯟꯅ ꯀꯨꯝꯖꯥ 2007 ꯀꯤ
ꯖꯨꯂꯥꯏ 7 ꯇ ꯕꯥꯔꯗ ꯐ꯭ꯂꯨꯒꯤ ꯂꯥꯏꯅꯥꯁꯤ ꯏꯝꯐꯥꯜ ꯏꯁꯠꯀꯤ ꯆꯤꯡꯃꯩꯔꯣꯡꯗꯒꯤ ꯁꯟꯗꯣꯔꯛꯏ꯫ ꯃꯁꯤꯗ ꯅꯨꯃꯤꯠ 3ꯅꯤꯒꯤ
ꯃꯅꯨꯡꯗ ꯌꯦꯟ 144 ꯒꯤ ꯃꯅꯨꯡꯗ ꯌꯦꯟ 132 ꯁꯤꯔꯤ꯫ ꯃꯁꯤꯒꯤ ꯃꯇꯨꯡ ꯏꯖꯤꯏ ꯀꯨꯏꯇ꯭ꯔꯤꯉꯩꯗ ꯀꯨꯝꯖꯥ 2015ꯒꯤ
ꯑꯦꯄ꯭ꯔꯤꯜ ꯊꯥꯗ ꯑꯃꯨꯛ ꯑꯥꯏ ꯁꯤ ꯑꯦ ꯑꯥꯔ ꯂꯝꯐꯦꯜꯗꯒꯤꯁꯨ ꯂꯥꯏꯅꯥꯁꯤ ꯍꯧꯔꯛꯈꯤ꯫

ꯕꯥꯔꯗ ꯐ꯭ꯂꯨ ꯂꯥꯏꯅꯥꯁꯤ ꯁꯟꯗꯣꯔꯛꯄꯒꯤ ꯃꯈꯜ ꯀꯌꯥ ꯑꯃ ꯂꯩ꯫ ꯃꯈꯣꯏꯁꯤꯡꯗꯨ ꯃꯈꯥꯗ ꯊꯝꯖꯔꯤ :-

(1) ꯑꯅꯥꯕ ꯌꯦꯟ ꯉꯥꯅꯨꯁꯤꯡꯒꯤ ꯃꯊꯤ-ꯃꯌꯨꯡꯗꯒꯤ ꯂꯥꯏꯅꯥꯁꯤ ꯊꯣꯛꯍꯜꯂꯤꯕ ꯃꯍꯤꯛ ꯀꯌꯥ ꯑꯃꯅ ꯅꯥꯗꯕ ꯌꯦꯟ
ꯉꯥꯅꯨꯁꯤꯡꯗ ꯁꯟꯗꯣꯛꯅꯕꯒꯤ ꯑꯆꯧꯕ ꯃꯆꯥꯛ ꯑꯃ ꯑꯣꯏꯍꯜꯂꯤ꯫ (2) ꯂꯝ ꯑꯃꯗꯒꯤ ꯑꯃꯗ ꯀꯣꯏꯄꯥꯏ ꯄꯥꯏꯗꯨꯅ
ꯂꯩꯕ ꯏꯁꯤꯡꯗ ꯆꯥꯛꯇꯥꯕ ꯂꯝꯂꯛꯀꯤ ꯎꯆꯦꯛꯁꯤꯡ ꯃꯄꯨꯡ ꯑꯣꯏꯅ ꯂꯝ ꯉꯥꯅꯨꯁꯤꯡ ꯑꯁꯤ ꯂꯥꯏꯅꯥ ꯑꯁꯤ ꯅꯥꯒꯟꯗ꯭ꯔꯒ-

ꯁꯨ ꯂꯥꯏꯅꯥ ꯑꯁꯤꯕꯨ ꯊꯣꯛꯍꯜꯂꯤꯕ ꯃꯍꯤꯛꯁꯤꯡ ꯃꯁꯥꯗ ꯌꯥꯎꯗꯨꯅ ꯄꯨꯕꯨ ꯎꯆꯦꯛꯁꯤꯡꯅꯤ꯫ ꯃꯈꯣꯏꯅ ꯍꯛꯊꯦꯡꯅꯅ
ꯅꯠꯇ꯭ꯔꯒ ꯅꯥꯀꯣꯏꯅꯅ ꯁꯝꯅꯔꯨꯕꯗꯒꯤ ꯌꯨꯝꯗ ꯌꯣꯛꯄꯥ ꯌꯦꯟ ꯉꯥꯅꯨꯁꯤꯡ ꯑꯁꯤꯗ ꯕꯥꯔꯗ ꯐ꯭ꯂꯨ ꯅꯥꯍꯜꯂꯛꯏ꯫ (3)
ꯌꯦꯟ ꯉꯥꯅꯨꯒꯤ ꯃꯆꯤꯟꯖꯥꯛꯁꯤꯡ, ꯐꯥꯔꯝꯒꯤ ꯃꯄꯣꯠ ꯃꯆꯩ, ꯒꯥꯔꯤꯅ ꯆꯤꯡꯕꯗꯁꯨ ꯃꯍꯤꯛ ꯑꯁꯤ ꯁꯟꯗꯣꯛꯇꯨꯅ ꯂꯥꯏꯅꯥ
ꯑꯁꯤ ꯅꯥꯗꯕ ꯃꯐꯝꯁꯤꯡꯗ ꯅꯥꯍꯜꯂꯤ꯫ (4) ꯑꯅꯥꯕ ꯌꯦꯟ ꯉꯥꯅꯨꯁꯤꯡꯒꯤ ꯐꯥꯔꯝꯁꯤꯡꯗ ꯆꯠꯂꯨꯕ ꯃꯤꯁꯤꯡꯒꯤ ꯃꯐꯤ
ꯃꯔꯣꯜꯁꯤꯡꯗ ꯃꯍꯤꯛ Asii ꯄꯛꯂꯛꯇꯨꯅ ꯃꯁꯤꯅ ꯑꯇꯣꯞꯄ ꯅꯥꯕꯗ ꯌꯦꯟ ꯉꯥꯅꯨꯒꯤ ꯐꯥꯔꯝꯁꯤꯡꯗ ꯆꯪꯂꯨꯕꯗ
ꯃꯍꯤꯛꯁꯤꯡꯁꯤ ꯁꯟꯗꯣꯔꯛꯄꯒꯤ ꯑꯆꯧꯕ ꯃꯆꯥꯛ ꯑꯃ ꯑꯣꯏꯍꯜꯂꯤ꯫ (5) ꯂꯥꯏꯅꯥ ꯑꯁꯤ ꯂꯥꯌꯦꯡꯕꯗꯒꯤ ꯐꯔꯛꯂꯕ
ꯌꯦꯟ ꯉꯥꯅꯨꯁꯤꯡꯗꯁꯨ ꯃꯇꯝ ꯁꯥꯡꯅ ꯍꯥꯏꯕꯗꯤ ꯊꯥ ꯑꯍꯨꯝ ꯐꯥꯎꯕ ꯃꯍꯤꯛꯁꯤ ꯂꯩꯗꯨꯅ ꯃꯍꯤꯛ ꯆꯦꯟꯕ ꯎꯆꯦꯛ ꯑꯣꯏ-

ꯗꯨꯅ ꯂꯩ꯫ ꯑꯁꯤꯒꯨꯃꯕ ꯃꯐꯝ ꯑꯁꯤꯗꯒꯤ ꯑꯇꯣꯞꯄ ꯃꯐꯝ ꯑꯃꯗꯤ ꯌꯦꯔꯨꯝ, ꯌꯦꯅꯥꯎ, ꯃꯁꯥ ꯑꯣꯏꯕ ꯄꯨꯕꯗ ꯃꯍꯤꯛ
ꯑꯁꯤ ꯂꯣꯏꯅꯔꯛꯇꯨꯅ ꯂꯥꯏꯅꯥꯁꯤ ꯁꯟꯗꯣꯔꯛꯏ꯫ (6) ꯑꯍꯤꯡꯕ ꯌꯦꯟ ꯉꯥꯅꯨ ꯌꯣꯟꯐꯝꯁꯤꯡ ꯑꯁꯤ ꯂꯥꯏꯅꯥ ꯑꯁꯤꯕꯨ
ꯁꯟꯗꯣꯛꯅꯕꯒꯤ ꯈ꯭ꯋꯥꯏꯗꯒꯤ ꯈꯨꯗꯣꯡꯆꯥꯕ ꯃꯐꯝ ꯑꯃꯁꯨ Aoiri꯫

ꯕꯥꯔꯗ ꯐ꯭ꯂꯨꯒꯤ ꯂꯥꯏꯑꯣꯡ :- ꯕꯥꯔꯗ ꯐ꯭ꯂꯨꯒꯤ ꯂꯥꯏꯑꯣꯡꯁꯤ ꯑꯇꯣꯞꯄ ꯂꯥꯏꯅꯥꯒꯤ ꯂꯥꯏꯑꯣꯡꯁꯤꯡꯒ ꯆꯃꯝꯅꯕ
ꯊꯣꯛꯇꯕꯗꯤ ꯅꯠꯇꯦ ꯑꯗꯨꯕꯨ ꯉꯟꯅ ꯈꯪꯗꯣꯛꯍꯧꯕ ꯑꯃꯗꯤ ꯇꯣꯉꯥꯟꯕ ꯂꯥꯏꯑꯣꯡ ꯑꯣꯏꯍꯧꯔꯒꯗꯤ ꯉꯟꯅ ꯂꯥꯏꯅꯥꯁꯤꯗꯒꯤ
ꯆꯦꯛꯁꯤꯜꯍꯧꯕ ꯉꯝꯒꯅꯤ꯫

ꯂꯥꯏꯅꯥꯁꯤꯒꯤ ꯂꯥꯏꯑꯣꯡꯁꯤ ꯃꯈꯜ ꯌꯥꯝꯃꯤ꯫ ꯃꯁꯤꯗ ꯑꯇꯣꯞꯄ ꯂꯥꯏꯑꯣꯡ ꯍꯥꯏꯕꯗꯤ ꯑꯇꯣꯞꯄ ꯂꯥꯏꯅꯥ ꯂꯩꯔꯝꯕ
ꯌꯥꯎꯔꯛꯄ, ꯌꯦꯟ ꯉꯥꯅꯨꯁꯤꯡꯒꯤ ꯃꯁꯥꯒꯤ ꯆꯍꯤ, ꯃꯈꯣꯏꯅ ꯂꯩꯔꯤꯕ ꯑꯀꯣꯏꯕꯒꯤ ꯐꯤꯚꯝ ꯑꯃꯗꯤ ꯂꯥꯏꯅꯥ ꯑꯁꯤꯕꯨ
ꯊꯣꯛꯍꯜꯂꯤꯕ ꯚꯥꯏꯔꯁꯀꯤ ꯁꯕꯇꯥꯏꯞꯁꯤꯡꯒꯤ ꯃꯈꯥ ꯌꯥꯝꯅ ꯄꯣꯜꯂꯤ꯫

ꯈꯔ ꯁꯥꯊꯤꯕ ꯃꯑꯣꯡꯗ ꯑꯣꯏꯔꯒꯗꯤ ꯂꯥꯏꯅꯥꯁꯤ ꯂꯥꯏꯑꯣꯡ ꯏꯈꯪ ꯈꯪꯍꯧꯗꯅ ꯂꯥꯏꯑꯣꯡ ꯎꯠꯇꯅ ꯄꯥꯛꯇꯛꯅꯅ ꯁꯤꯕ
ꯌꯥꯎꯏ ꯑꯗꯨꯒ ꯑꯇꯣꯞꯄ ꯂꯥꯏꯑꯣꯡ ꯈꯔ ꯍꯥꯏꯕ ꯇꯥꯔꯒꯗꯤ :-

F ꯃꯀꯣꯛ, ꯃꯤꯠꯄꯥꯟ, ꯃꯇ꯭ꯔꯣꯛ, ꯃꯈꯣꯡ ꯄꯤꯛꯂꯛꯄ

F ꯃꯁꯥ ꯁꯣꯟꯊꯔꯛꯄ

F ꯌꯦꯟꯒꯤ ꯃꯇ꯭ꯔꯣꯛ ꯑꯃꯗꯤ ꯃꯈꯣꯡ ꯁꯪꯖꯤꯜꯂꯛꯄ

F ꯃꯔꯨꯝ ꯀꯣꯛꯄꯒꯤ ꯆꯥꯡ ꯍꯟꯊꯔꯛꯄ

F ꯃꯔꯨꯝꯒꯤ ꯃꯀꯨꯗꯨ ꯄꯥꯊꯔꯛꯄ

F ꯏꯁꯤꯡ ꯑꯣꯏꯅ ꯃꯈꯣꯡ ꯍꯥꯝꯊꯔꯛꯄ

F ꯁ꯭ꯋꯔ ꯍꯣꯟꯕ ꯋꯥꯔꯛꯄꯥ

F ꯆꯥꯅꯤꯡ ꯊꯛꯅꯤꯡꯗꯕ

F ꯃꯈꯣꯡ ꯄꯪꯊꯔꯛꯄ
ꯂꯥꯏꯅꯥꯁꯤ ꯈꯔ ꯍꯟꯊꯕ ꯃꯑꯣꯡꯗꯗꯤ-

FloK ꯈꯨꯕ, ꯅꯥꯇꯣꯟ ꯃꯍꯤ ꯆꯦꯟꯕ
F ꯃꯃꯥꯏ ꯄꯣꯝꯈꯠꯄꯥ

F ꯅꯔꯕꯀꯤ ꯂꯥꯌꯦꯡ ꯎꯔꯛꯄ

F ꯗꯥꯏꯔꯤꯌꯥ ꯇꯧꯕꯤ
ꯕꯥꯔꯗ ꯐ꯭ꯂꯨꯒꯤ ꯂꯥꯏꯅꯥꯁꯤ ꯑꯅꯥꯕ ꯌꯦꯟ ꯉꯥꯅꯨꯗꯒꯤ ꯃꯤꯑꯣꯏꯕꯗ ꯂꯧꯅꯩ ꯑꯗꯨꯕꯨ ꯑꯅꯥꯕ ꯃꯤꯗꯒꯤ ꯑꯇꯣꯄꯄ ꯃꯤ
ꯑꯃꯗꯗꯤ ꯂꯧꯅꯗꯦ꯫ ꯕꯥꯔꯗ ꯐ꯭ꯂꯨꯒꯤ ꯂꯥꯏꯅꯥꯁꯤ ꯃꯤꯑꯣꯏꯕꯗ ꯂꯧꯅꯕ ꯃꯇꯝꯗ ꯃꯍꯤꯛ ꯆꯦꯜꯂꯕ ꯃꯤꯗꯨ ꯁꯤꯕ ꯐꯥꯎꯕ
ꯌꯥꯎꯏ꯫

ꯁꯥꯊꯤꯕ ꯃꯑꯣꯡꯒꯤ ꯑꯅꯥꯕꯗꯗꯤ ꯁꯤꯕꯒꯤ ꯆꯥꯡꯁꯤ ꯆꯥꯗ 90 ꯗꯒꯤ 100 ꯐꯥꯎꯕ ꯑꯣꯏ ꯑꯗꯨꯒ ꯈꯔ ꯍꯟꯊꯕ ꯃꯑꯣ-

Zgi ꯂꯥꯏꯅꯥ ꯑꯁꯤꯗꯗꯤ ꯁꯤꯕꯒꯤ ꯆꯥꯡ ꯊꯣꯏꯅ ꯂꯩꯇꯦ꯫ ꯑꯗꯨꯕꯨ ꯀꯤꯅꯤꯡꯉꯥꯏ ꯑꯣꯏꯔꯤꯕꯗꯤ ꯍꯟꯊꯕ ꯃꯑꯣꯡꯒꯤ
ꯂꯥꯏꯅ ꯊꯣꯛꯍꯜꯂꯤꯕ ꯃꯍꯤꯛ ꯑꯁꯤꯅ ꯊꯥ ꯇꯔꯨꯛꯀꯤ ꯃꯅꯨꯡꯗ ꯁꯥꯊꯤꯕ ꯃꯑꯣꯡꯒꯤ ꯂꯥꯏꯅꯥ ꯊꯣꯛꯍꯟꯕ ꯃꯍꯤꯛꯀꯤ
ꯃꯄꯥꯡꯒꯜ ꯂꯥꯛꯇꯨꯅ ꯁꯥꯊꯤꯅ ꯑꯃꯥꯡ ꯑꯇ ꯊꯣꯛꯍꯟꯕꯒꯤ ꯊꯧꯗꯣꯛ ꯀꯌꯥ ꯑꯃꯒꯤ ꯔꯤꯄꯣꯔꯠ ꯂꯩꯔꯤ꯫

ꯉꯥꯛꯊꯣꯛꯅꯕ ꯆꯦꯛꯁꯤꯟ ꯊꯧꯔꯥꯡꯁꯤꯡ : ꯃꯤꯌꯥꯝꯅ ꯃꯔꯨ ꯑꯣꯏꯅ ꯌꯦꯟ ꯉꯥꯅꯨ ꯂꯣꯏꯕꯤꯔꯤꯕꯁꯤꯡꯅ ꯃꯇꯝ ꯄꯨꯝꯅ-

ꯃꯛꯇ ꯃꯁꯥꯒꯤ ꯌꯦꯟ ꯉꯥꯅꯨꯁꯤꯡꯒꯤ ꯃꯔꯛꯇ ꯕꯥꯔꯗ ꯐ꯭ꯂꯨ ꯑꯁꯤ ꯆꯥꯅꯕꯒꯤ ꯆꯤꯡꯅꯕ ꯂꯩꯕ꯭ꯔꯥ ꯍꯥꯏꯕꯗꯨ ꯀꯨꯞꯅ ꯁꯦꯟꯅ-

ꯕꯤꯕꯒꯤ ꯇꯉꯥꯏꯐꯗꯕ ꯂꯩ꯫ ꯀꯔꯤꯒꯨꯝꯕ ꯆꯤꯡꯅꯕ ꯌꯥꯕ ꯍꯦꯛ ꯌꯥꯎꯔꯛꯄꯒ ꯈꯨꯗꯛꯇ ꯑꯅꯥꯕꯁꯤꯡꯗꯨ ꯇꯣꯉꯥꯟꯅ ꯃꯐꯝ
ꯆꯥꯕ ꯌꯦꯡꯂꯒ ꯊꯝꯕꯤꯒꯅꯤ ꯑꯃꯗꯤ ꯃꯅꯥꯛ ꯅꯛꯄꯗ ꯂꯩꯕ ꯚꯦꯇꯤꯔꯤꯅꯔꯅꯤ ꯗꯤꯄꯥꯔꯠꯃꯦꯟꯠꯀꯤ ꯃꯤꯑꯣꯏꯁꯤꯡꯒ
ꯇꯥꯟꯅꯗꯨꯅ ꯑꯃꯗꯤ ꯈꯨꯗꯛꯇ ꯊꯦꯡꯅꯕ ꯉꯝꯅꯕ ꯃꯤꯀꯨꯞ ꯅꯥꯍꯨꯝ ꯁꯦꯟꯅꯗꯨꯅ ꯂꯩꯅꯕ ꯍꯣꯠꯅꯕꯤꯒꯅꯤ꯫

ꯂꯥꯏꯅꯥ ꯑꯁꯤꯒꯤ ꯂꯥꯏꯆꯠꯁꯤ ꯈꯨꯗꯛꯇ ꯊꯣꯔꯛꯇꯨꯅ ꯌꯦꯟ ꯉꯥꯅꯨ ꯀꯌꯥꯃꯔꯨꯝ ꯁꯤꯕ ꯇꯥꯔꯒꯗꯤ ꯂꯩꯍꯧꯔꯤꯕ ꯌꯦꯟ
ꯉꯥꯅꯁꯨꯡ ꯑꯃꯗꯤ ꯑꯀꯣꯏꯕꯗ ꯂꯩꯔꯤꯕ ꯌꯦꯟ ꯉꯥꯅꯨꯁꯤꯡ ꯈꯨꯗꯛꯇ ꯍꯥꯠꯇꯣꯛꯄꯤꯔꯒ ꯃꯐꯝ ꯆꯥꯅ ꯐꯨꯝꯕꯤꯕ ꯅꯠꯇ꯭ꯔꯒ
ꯃꯩ ꯊꯥꯗꯣꯛꯄꯤꯒꯅꯤ꯫

- ꯑꯁꯤꯒꯨꯝꯕ ꯃꯇꯝꯁꯤ ꯌꯧꯔꯛꯂꯒꯗꯤ ꯌꯦꯟ ꯉꯥꯅꯨꯁꯤꯡ ꯃꯐꯝ ꯑꯃꯗꯒꯤ ꯑꯃꯗ ꯄꯨꯊꯣꯛ ꯄꯨꯁꯤꯟ ꯇꯧꯕ ꯌꯥꯗꯦ꯫

- ꯌꯦꯟ ꯉꯥꯅꯨꯁꯤꯡꯅ ꯂꯩꯔꯝꯂꯤꯕ ꯃꯀꯣꯟꯁꯤꯡꯗꯨ ꯗꯤꯁꯏꯟꯐꯦꯛꯇꯦꯟꯠ ꯁꯤꯖꯤꯟꯅꯗꯨ ꯁꯦꯡꯗꯣꯛꯄꯤꯒꯅꯤ꯫ ꯃꯁꯤꯅ
ꯃꯍꯤꯛꯀꯤ ꯆꯥꯡ ꯍꯟꯊꯍꯜꯂꯤ꯫

- ꯂꯥꯏꯅꯥ ꯑꯁꯤꯕꯨ ꯁꯟꯗꯣꯔꯛꯂꯤꯕ ꯃꯐꯝꯗꯨ ꯅꯤꯡꯊꯤꯅ ꯑꯈꯪ ꯑꯍꯩꯁꯤꯡꯒ ꯇꯥꯅꯗꯨꯅ ꯈꯪꯗꯣꯛꯂꯒ ꯃꯥꯒꯤ ꯏꯟꯐꯦꯛ-

ꯁꯟ ꯇꯧꯔꯛꯄꯒꯤ ꯃꯐꯝꯁꯤꯡ ꯈꯪꯗꯣꯛꯄꯤꯕ ꯗꯔꯀꯥꯔ ꯑꯣꯏ꯫

ꯃꯐꯝꯁꯤꯗꯗꯤ ꯇꯤꯀꯥ ꯊꯥꯕꯒꯤ ꯈꯨꯗꯣꯡꯆꯥꯕ ꯂꯩꯇꯕꯅꯤꯅ ꯆꯦꯛꯁꯤꯟꯅ ꯂꯨ ꯅꯥꯟꯅ ꯌꯦꯟ ꯉꯥꯅꯨꯁꯤꯡꯒꯤ ꯃꯀꯣꯟꯁꯤꯡ ꯊꯝ-

ꯕꯤꯒꯅꯤ ꯑꯃꯗꯤ ꯑꯇꯣꯞꯄ ꯎꯆꯦꯛ ꯋꯥꯌꯥꯁꯤꯡ ꯆꯪꯂꯛꯇꯅꯕ ꯍꯣꯠꯅꯕꯤꯒꯅꯤ꯫ ꯈ꯭ꯋꯥꯏꯗꯒꯤ ꯆꯦꯛꯁꯤꯟꯕꯤꯒꯗꯕꯗꯤ
ꯌꯦꯟ ꯉꯥꯅꯨ ꯁꯦꯟꯅꯕꯤꯔꯤꯕꯤ ꯃꯄꯨꯁꯤꯡꯗ ꯃꯈꯣꯏꯅ ꯁꯦꯠ ꯆꯥꯔꯤꯕ ꯐꯤꯔꯣꯜꯁꯤꯡꯗꯨ ꯂꯨ ꯅꯥꯟꯅ ꯁꯦꯠꯄꯤꯒꯅꯤ ꯑꯃꯗꯤ
ꯃꯀꯣꯟ ꯃꯅꯨꯡꯗ ꯇꯣꯡꯂꯒ ꯆꯪꯒꯗꯧꯔꯤꯕ ꯈꯣꯡꯎꯞꯇꯨ ꯗꯤꯁꯏꯟꯐꯦꯛꯠꯇꯦꯟꯠꯇ ꯂꯨꯞꯂꯒ ꯆꯪꯕꯤꯒꯅꯤ꯫

=

ꯗꯣ. ꯁꯔꯥꯡꯊꯦꯝ ꯖꯦꯁꯃꯥꯔꯥꯅꯤ
ꯕꯥꯔꯗ ꯐ꯭ꯂꯨ

‘ꯔꯤꯡ ꯔꯣꯠ’ ꯑꯋꯥꯊꯕꯤꯒꯤ ꯚꯥꯏꯔꯁ ꯂꯥꯏꯅꯥ
(ꯐꯦꯕ꯭ꯔꯨꯋꯥꯔꯤꯗ ꯊꯥꯕ ꯑꯋꯥꯊꯕꯤ ꯄꯥꯝꯕꯤꯗꯗꯤ ꯂꯥꯏꯅꯥꯁꯤ ꯇꯥꯕꯒꯤ ꯆꯥꯡ ꯍꯟꯊꯩ)
ꯎꯍꯩ ꯆꯥꯕꯒꯤ ꯀꯥꯟꯅꯕ ꯃꯤꯄꯨꯝ ꯈꯨꯗꯤꯡꯃꯛꯅ ꯈꯪꯅꯔꯛꯄꯒ ꯂꯣꯏꯅꯅ ꯎꯍꯩ ꯍꯥꯏꯕꯁꯤ ꯅꯣꯡꯃꯒꯤ ꯆꯪꯗ꯭ꯔꯕ
ꯌꯥꯗ꯭ꯔꯕ ꯆꯤꯟꯖꯥꯛꯀꯤ ꯃꯆꯜ ꯑꯃ ꯑꯣꯏꯔꯦ꯫ ꯎꯍꯩꯁꯤꯡꯒꯤ ꯃꯔꯛꯇ ꯑꯋꯥꯊꯕꯤꯕꯨ ꯈ꯭ꯋꯥꯏꯗꯒꯤ ꯍꯦꯟꯅ ꯄꯥꯝꯅꯩ,
ꯆꯟꯅꯐꯝ ꯍꯦꯟꯅ ꯂꯩ, ꯃꯃꯜ ꯋꯥꯡꯏ꯫ ꯏꯪꯈꯣꯜꯒꯤ ꯅꯠꯇ꯭ꯔꯒ ꯄꯨꯈꯒ꯭ꯔꯤꯒꯤ ꯑꯀꯣꯏꯕꯗ ꯊꯥꯅꯕꯗ ꯅꯠꯇꯅ ꯉꯁꯤꯗꯤ
ꯑꯋꯥꯊꯕꯤꯒꯤ ꯍꯩꯀꯣꯜ ꯑꯣꯏꯅ ꯊꯝꯅꯕꯁꯨ ꯌꯥꯎꯔꯦ꯫ ꯃꯔꯨ ꯑꯣꯏꯕ ꯎꯍꯩ ꯑꯃ ꯑꯣꯏꯔꯦ꯫

ꯑꯋꯥꯊꯕꯤ ꯄꯥꯝꯕꯤꯗ ꯇꯥꯕ ꯂꯥꯏꯅꯥ ꯃꯌꯥꯝ ꯑꯃꯒꯤ ꯃꯅꯨꯡꯗ ꯚꯥꯏꯔꯁꯅ ꯊꯣꯛꯍꯟꯕ ‘ꯄꯥꯄꯥꯌꯥ ꯔꯤꯡ ꯔꯣꯠ’

ꯍꯥꯏꯕꯁꯤ ꯑꯋꯥꯊꯕꯤ ꯄꯥꯝꯕꯤꯗ ꯚꯥꯏꯔꯁꯅ ꯊꯣꯛꯍꯟꯕ ꯂꯥꯏꯅꯥꯁꯤꯡꯒꯤ ꯃꯅꯨꯡꯗ ꯈ꯭ꯋꯥꯏꯗꯒꯤ ꯍꯦꯟꯅ ꯁꯥꯊꯤꯕ ꯂꯥꯏꯅꯥ
ꯑꯃꯅꯤ꯫ ꯂꯥꯏꯅꯥ ꯑꯁꯤꯅ ꯅꯥꯈ꯭ꯔꯕ ꯄꯥꯝꯕꯤꯗꯨ ꯐꯍꯟꯕ ꯉꯝꯗꯦ꯫ ꯂꯥꯏꯅꯥꯁꯤ ꯄꯥꯝꯕꯤ ꯑꯃꯗꯒꯤ ꯄꯥꯝꯕꯤ ꯑꯃꯗ
ꯁꯟꯗꯣꯔꯛꯇꯨꯅ ꯊꯥꯔꯤꯕ ꯄꯥꯝꯕꯤ ꯄꯨꯝꯅꯃꯛ ꯂꯥꯏꯅ ꯑꯁꯤꯅ ꯅꯥꯍꯟꯕ ꯉꯝꯃꯤ꯫ ꯂꯥꯏꯅꯥ ꯑꯁꯤꯕꯨ ꯉꯥꯛꯊꯣꯛꯆꯕ
ꯉꯝꯕ ꯄꯥꯝꯕꯤ ꯃꯈꯜ (Resistant or Tolerant Cultivar) ꯑꯃꯠꯇ ꯂꯩꯇ꯭ꯔ꯫ ꯃꯔꯝ ꯑꯁꯤꯅ ꯂꯥꯏꯅꯥ
ꯑꯁꯤꯒꯤ ꯂꯥꯏꯑꯣꯡ ꯈꯪꯗꯣꯛꯇꯨꯅ ꯃꯈꯥ ꯇꯥꯅ ꯁꯟꯗꯣꯔꯛꯇꯅꯕ ꯍꯣꯠꯅꯍꯧꯗꯕꯅ ꯄꯣꯠꯊꯣꯛ ꯍꯦꯟꯒꯠꯍꯟꯕꯗ ꯑꯆꯧꯕ
ꯃꯇꯦꯡ ꯑꯣꯏꯒꯅꯤ꯫

ꯂꯥꯏꯑꯣꯡ :- ꯃꯊꯛ ꯊꯪꯕ ꯄꯥꯝꯕꯤꯒꯤ ꯁꯔꯨꯛ ꯈꯨꯗꯤꯡ ꯍꯥꯏꯕꯗꯤ ꯃꯅꯥ, ꯃꯈꯣꯛ, ꯃꯍꯩ ꯑꯃꯁꯨꯡ ꯃꯇꯥꯡꯗ
ꯂꯥꯏꯅꯥꯁꯤꯒꯤ ꯂꯥꯏꯑꯣꯡ ꯎꯕ ꯐꯪꯏ꯫ ꯂꯥꯏꯅꯥ ꯑꯁꯤꯒꯤ ꯂꯥꯏꯑꯣꯡ ꯂꯧꯔꯤꯕ ꯃꯅꯥꯗ ꯏꯊꯥꯟ ꯍꯥꯟꯅ ꯎꯏ꯫ ꯅꯧꯔꯤꯕ
ꯃꯅꯥꯁꯤꯡꯒꯤ ꯃꯆꯨ ꯇꯥꯏꯊꯔꯛꯏ, ꯅꯥꯄꯨ ꯃꯆꯨ ꯆꯪꯂꯞ ꯇꯧꯔꯛꯏ꯫ ꯃꯅꯥꯒꯤ ꯃꯁꯤꯡꯁꯤꯡ (ꯚ꯭ꯌꯦꯟ) ꯃꯌꯦꯛ ꯁꯦꯡꯅ
ꯎꯕ ꯊꯧꯔꯛꯏ꯫ ꯃꯅꯥꯒꯤ ꯃꯆꯤ ꯃꯆꯤꯗ ꯁꯪꯖꯤꯟꯕ ꯁꯔꯨꯛꯁꯤꯡ ꯃꯌꯦꯛ ꯁꯦꯡꯅ ꯎꯕ ꯍꯧꯔꯛꯏ꯫

ꯃꯅꯒꯤ ꯃꯇꯥꯏ ꯊꯪꯕ ꯁꯔꯨꯛꯁꯤꯉ ꯀꯣꯟꯈꯠꯂꯤ꯫ ꯃꯅꯥ ꯌꯥꯠꯄꯒꯤ ꯃꯁꯤꯡ ꯍꯦꯟꯒꯠꯂꯤ, ꯆꯥꯡ ꯃꯥꯟꯅꯗꯦ꯫ ꯃꯑꯣꯡ
ꯀꯥꯏꯔꯛꯏ꯫ ꯑꯔꯤꯕ ꯃꯅꯥꯒꯤ ꯃꯇꯥꯏ ꯊꯪꯕ ꯁꯔꯨꯛꯁꯤꯡꯗ ꯍꯦꯟꯅ ꯀꯣꯟꯁꯤꯜꯂꯤ꯫ ꯃꯅꯥ ꯃꯁꯤꯡ ꯍꯟꯊꯅ ꯁꯨꯡꯖꯤꯟꯕ ꯂꯩꯍꯧꯏ꯫

ꯄꯥꯜꯂꯤꯕ ꯃꯍꯩꯁꯤꯡ ꯄꯤꯛꯏ, ꯃꯑꯣꯡ ꯀꯥꯏꯅ ꯂꯩ, ꯌꯣꯟꯐꯝꯗ ꯁꯤꯠꯀꯗꯕ ꯃꯥꯟꯗꯦ꯫ ꯅꯨꯃꯤꯠ 15 ꯃꯄꯨꯡ
ꯐꯥꯔꯕ ꯎꯍꯩꯁꯤꯡꯗ ꯂꯩꯔꯛꯏ꯫ ꯀꯣꯏꯔꯣꯛ ꯀꯣꯏꯔꯣꯛ ꯀꯣꯏꯅ ꯌꯦꯛꯄ ꯃꯥꯟꯕ ꯗꯥꯒꯁꯤꯉꯁꯨ ꯃꯤꯂꯤꯃꯤꯇꯔ ꯑꯃ
ꯃꯈꯥꯏꯃꯨꯛꯇꯪ ꯆꯥꯎꯒꯅꯤ꯫ ꯑꯋꯥꯊꯕꯤ ꯆꯥꯎꯈꯠꯂꯛꯄꯒ ꯂꯣꯏꯅꯅ ꯑꯀꯣꯏꯕꯗ ꯗꯤꯒꯁꯤꯡꯁꯨ ꯆꯥꯎꯈꯇꯂꯛꯏ,
ꯃꯤꯃꯤꯂꯤꯇꯔ 25 25 ꯐꯥꯎꯕ ꯆꯥꯎꯅ ꯌꯦꯛꯄ ꯃꯥꯜꯂꯛꯏ꯫ ꯃꯨꯜꯂꯕ ꯃꯇꯝꯗꯗꯤ ꯗꯥꯒꯁꯤꯡ ꯎꯕ ꯋꯥꯏ꯫ ꯑꯁꯤꯒꯨꯃꯕ
ꯑꯋꯥꯊꯕꯤꯁꯤꯡ ꯈꯣꯛꯇꯣꯛꯇꯨꯅ ꯌꯦꯡꯕꯗ ꯃꯅꯨꯡꯗ ꯔꯤꯡꯁꯤꯡꯒꯤ ꯃꯃꯤ ꯆꯥꯎꯅ ꯂꯩ꯫ ꯂꯥꯏꯅꯥ ꯑꯁꯤꯅ ꯅꯥꯔꯕ
ꯑꯋꯥꯊꯕꯤꯁꯤꯡꯒꯤ ꯄꯣꯠꯊꯣꯛ ꯍꯟꯊꯩ꯫ ꯂꯣꯏꯅꯅ ꯎꯍꯩ ꯑꯗꯨ ꯊꯨꯝꯕ ꯋꯥꯠꯂꯤ꯫

ꯉꯥꯛꯊꯣꯛꯅꯕ ꯄꯥꯃꯕꯩ :- 1) ꯂꯥꯏꯅꯥ ꯑꯁꯤ ꯃꯔꯨꯗꯒꯤ ꯆꯦꯟꯅꯔꯛꯄ ꯅꯠꯇꯦ꯫ ꯆꯥꯔꯥ ꯁꯦꯝꯕ ꯃꯇꯝꯗ ꯄꯤꯛꯂꯤꯕ
ꯆꯥꯔꯥꯁꯤꯉꯗ ꯃꯍꯤ ꯆꯨꯞꯄꯤ ꯇꯤꯜꯁꯤꯡꯅ ꯂꯥꯏꯅꯥ ꯑꯁꯤ ꯁꯟꯗꯣꯔꯛꯇꯅꯕ ꯅꯟ-ꯋꯨꯚꯟ ꯀ꯭ꯂꯣꯊꯅ ꯀꯨꯞꯁꯤꯟꯗꯨꯅ
ꯆꯥꯔꯥ ꯁꯦꯝꯒꯅꯤ꯫

2) ꯍꯥꯟꯅꯅ ꯁꯦꯝꯂꯕ ꯆꯥꯔꯥꯁꯤꯡ ꯐꯦꯕ꯭ꯔꯨꯋꯥꯔꯤ ꯊꯥꯗ ꯊꯥꯗꯣꯛꯄꯅ ꯄꯥꯝꯕꯤ ꯃꯁꯥ ꯐꯍꯟꯕꯇ ꯅꯠꯇꯅ ꯂꯥꯏꯅ
ꯃꯈꯜꯁꯤꯡ ꯇꯥꯕ ꯍꯟꯊꯍꯜꯂꯤ꯫ ꯆꯥꯎꯈꯠꯄ ꯂꯝꯁꯤꯡꯗꯗꯤ ꯄꯥꯄꯥꯌꯥ ꯔꯤꯁ꯭ꯄꯣꯠ ꯚꯥꯏꯔꯁ ꯄꯤꯒꯤ ꯈꯔ ꯈꯔ
ꯁꯣꯟꯕ ꯁꯇ꯭ꯔꯦꯟꯁꯤꯡ ꯁꯤꯖꯤꯟꯅꯩ꯫ ꯑꯋꯥꯊꯕꯤ ꯄꯥꯝꯕꯤꯅ ꯄꯤꯛꯂꯤꯉꯩ, ꯃꯅꯥ ꯑꯍꯨꯝꯃꯨꯛꯇ ꯉꯥꯏꯔꯤꯉꯩꯗ ꯍꯥꯏꯔꯤꯕ
ꯑꯁꯣꯟꯕ ꯁꯇ꯭ꯔꯦꯟꯁꯤꯡ ꯑꯁꯤ ꯀꯥꯞꯁꯤꯟ ꯆꯥꯏꯁꯤꯜꯂꯤ꯫ ꯅꯨꯃꯤꯠ 15ꯅꯤꯃꯨꯛ ꯂꯩꯔꯒ ꯑꯃꯨꯛ ꯍꯟꯅ ꯆꯥꯏꯁꯤꯜꯂꯕ
(innoculate) ꯃꯇꯨꯡꯗ ꯆꯥꯔꯥꯁꯤꯡ ꯂꯤꯡꯊꯣꯛꯄꯒꯤ ꯊꯕꯛ ꯇꯧꯏ꯫ ꯄꯥꯝꯕꯤꯁꯤꯡꯕꯨ ꯂꯥꯏꯅꯥ ꯑꯁꯤꯗ ꯍꯩꯅꯍꯜꯂꯤ꯫

ꯃꯇꯨꯡꯗ ꯑꯀꯟꯕ ꯁꯇ꯭ꯔꯦꯟꯕꯨꯁꯨ ꯈꯔꯃꯈꯩ ꯉꯥꯛꯊꯣꯛꯆꯕ ꯉꯝꯍꯜꯂꯤ꯫

3) ꯂꯥꯏꯅꯥ ꯆꯦꯜꯂꯕ ꯄꯥꯝꯕꯤꯁꯤꯡ ꯌꯥꯔꯤꯕꯃꯈꯩ ꯐꯨꯛꯇꯣꯛꯄꯤꯒꯅꯤ꯫

ꯄꯥꯝꯕꯤꯁꯤꯡ ꯑꯗꯨꯕꯨ ꯄꯥꯜꯂꯛꯈꯤꯒꯅꯤ, ꯆꯥꯎꯔꯛꯈꯤꯒꯅꯤ ꯈꯟꯅ ꯊꯝꯕꯤꯔꯣꯏꯗꯕꯅꯤ꯫ ꯃꯈꯥ ꯇꯥꯅ
ꯁꯟꯗꯣꯛꯈꯤꯗꯅꯕ ꯍꯣꯠꯅꯒꯅꯤ꯫

4) ꯖꯨꯂꯥꯏ ꯊꯥ ꯑꯃꯁꯨꯡ ꯑꯣꯛꯇꯣꯕꯔ ꯊꯥꯗ ꯑꯋꯥꯊꯕꯤ ꯊꯥꯔꯣꯏꯁꯤ꯫ ꯐꯦꯕ꯭ꯔ uwari ꯊꯥꯗ ꯊꯥꯕꯅ ꯂꯥꯏꯅꯥ ꯇꯥꯕ ꯍꯟꯊꯩ
ꯑꯃꯁꯨꯡ ꯄꯣꯠꯊꯣꯛ ꯍꯦꯟꯒꯠꯍꯜꯂꯤ꯫

5) ꯄꯥꯝꯕꯤꯅ ꯏꯁꯤꯡ ꯐꯪꯗꯕ ꯃꯇꯝꯗꯁꯨ ꯄꯥꯝꯕꯤꯒꯤ ꯏꯁꯤꯡ ꯋꯥꯠꯇꯅꯕ ꯍꯣꯠꯅꯒꯅꯤ꯫ ꯑꯋꯥꯊꯕꯤꯗ ꯏꯁꯤꯡ
ꯍꯦꯟꯕ ꯌꯥꯗ꯭ꯔꯕꯁꯨ, ꯋꯥꯠꯄꯁꯨ ꯌꯥꯗꯦ, ꯄꯥꯝꯕꯤ ꯃꯁꯥ ꯁꯣꯜꯂꯤ, ꯂꯥꯏꯅꯥ ꯇꯥꯕ ꯍꯦꯜꯂꯛꯏ꯫ ꯄꯥꯝꯕꯩ ꯑꯃ ꯊꯤꯗꯨꯅ ꯏꯁꯤꯡ
ꯋꯥꯠꯍꯜꯂꯣꯏꯁꯤ꯫ ꯏꯁꯤꯡ ꯍꯥꯞꯂꯝꯕ ꯄ꯭ꯂꯥꯁꯇꯤꯛ ꯕꯣꯠꯇꯜꯁꯤꯡꯗ ꯄꯤꯛꯅ ꯍꯨꯠꯄꯤꯔꯒ ꯍꯩꯈꯣꯡꯗ ꯊꯝꯕꯤꯗꯨꯅ
ꯗ꯭ꯔꯤꯞ ꯏꯔꯤꯒꯦꯁꯟꯒꯤ ꯃꯑꯣꯡꯗ ꯏꯁꯤꯡ ꯄꯤꯕꯤꯕ ꯌꯥꯏ꯫

6) ꯃꯅꯥꯛ ꯅꯛꯄ ꯃꯔꯤ ꯆꯠꯄ ꯄꯥꯝꯕꯤꯁꯤꯡ ꯈꯨꯗꯝ ꯑꯣꯏꯅ ꯊꯕꯤ, ꯃꯥꯏꯔꯦꯟ, ꯇꯔꯕꯨꯖ ꯑꯃꯁꯨꯡ
ꯗꯁꯀꯨꯁꯅꯆꯤꯉꯕ ꯄꯥꯝꯕꯤꯁꯤꯡ ꯊꯥꯕꯤꯔꯣꯏꯗꯕꯅꯤ꯫ ꯃꯔꯝꯗꯤ ꯍꯥꯏꯔꯤꯕ ꯄꯥꯝꯕꯤꯁꯤꯡꯗꯁꯨ ꯂꯥꯏꯅꯥꯁꯤꯡ ꯑꯁꯤ
ꯇꯥꯒꯅꯤ꯫ ꯄꯥꯝꯕꯤ ꯃꯈꯜ ꯑꯃꯗꯒꯤ ꯑꯇꯣꯄꯄ ꯄꯥꯝꯕꯤ ꯃꯈꯜ ꯑꯃꯗ ꯂꯧꯅꯔꯛꯄ ꯌꯥꯏ꯫ ꯃꯁꯤꯗ ꯅꯠꯇ ꯈꯥꯃꯦꯟ
ꯑꯁꯤꯟꯕ, ꯍꯤꯗꯥꯛ ꯃꯅꯥ, morKonciZb ꯄꯥꯝꯕꯤꯁꯤꯡꯒꯁꯨ ꯅꯛꯅ ꯊꯥꯕꯁꯨ ꯂꯥꯏꯅꯥ ꯑꯁꯤ ꯄꯥꯝꯕꯤ ꯃꯈꯜ ꯑꯃꯗꯒꯤ
ꯄꯥꯝꯕꯒꯤ ꯃꯈꯜ ꯑꯃꯗ ꯂꯥꯏꯅꯥ ꯁꯟꯗꯣꯛꯏ꯫ ꯃꯁꯤꯗ ꯅꯠꯇ ꯄꯥꯄꯥꯌꯥ ꯀꯔꯜ ꯍꯥꯏꯕ mnau ꯀꯨꯠꯁꯤꯟꯕꯤ ꯂꯥꯏꯅꯥꯗꯨꯁꯨ
ꯂꯧꯅꯕ ꯉꯝꯃꯤ꯫

7) ꯋꯥꯍꯤꯛ ꯇꯤꯛ, ꯍ꯭ꯋꯥꯏꯠ ꯐ꯭ꯂꯥꯏꯟꯆꯤꯡꯕ ꯃꯍꯤ ꯆꯨꯞꯄꯤ ꯇꯤꯜꯁꯤꯡ ꯑꯁꯤꯅ ꯂꯥꯏꯅꯥꯁꯤꯡ ꯑꯁꯤ ꯁꯟꯗꯣꯛꯄ
ꯃꯔꯝꯅ ꯇꯤꯜꯁꯤꯡꯕꯨ ꯍꯥꯠꯅꯕ ꯃꯈꯜ ꯀꯌꯥꯒꯤ ꯍꯤꯗꯥꯛ ꯀꯥꯞꯄꯤ꯫ ꯑꯗꯨꯕꯨ ꯃꯤꯑꯣꯏꯕꯗ ꯑꯀꯥꯏꯕ ꯄꯤꯗꯕ
ꯑꯣꯔꯒꯦꯅꯤꯛ ꯑꯣꯏꯕ Vertiguard (Verticillium ꯂꯦꯆꯥꯅꯤ) ꯒ꯭ꯔꯥꯝ 50 ꯏꯁꯤꯡ ꯂꯤꯇꯔ 15 ꯈꯨꯗꯤꯡꯗ
ꯌꯥꯜꯂꯒ ꯀꯥꯞꯊꯣꯛꯀꯅꯤ꯫

ꯅꯤꯝ ꯑꯣꯏꯜ ꯃꯤꯂꯤꯂꯤꯇꯔ 15 ꯏꯁꯤꯡ ꯂꯤꯇꯔ 15 ꯈꯨꯗꯤꯡꯗ ꯌꯥꯜꯂꯒ ꯃꯔꯛ ꯃꯔꯛꯇ ꯀꯥꯞꯊꯣꯛꯄ ꯃꯍꯤ
ꯆꯨꯞꯄ ꯇꯤꯜꯁꯤꯡ ꯇꯥꯕ ꯍꯟꯊꯩ꯫ ꯇꯧꯏꯒꯨꯃꯕꯁꯨꯡ ꯑꯇꯩ ꯄꯥꯝꯕꯤꯗ ꯀꯥꯟꯅꯕ ꯐꯪꯕꯒꯤ ꯆꯥꯡꯗꯨꯃꯛꯇꯤ ꯑꯋꯥꯊꯕꯤꯗꯗꯤ
ꯐꯪꯗꯦ꯫ ꯑꯋꯥꯊꯕꯤ ꯄꯥꯝꯕꯤꯗꯗꯤ ꯋꯥꯍꯤꯛꯁꯤꯡ ꯃꯆꯥ ꯄꯣꯛꯇꯦ ꯍꯥꯏꯕ ꯔꯤꯄꯣꯔꯠ ꯇꯧꯅꯕꯁꯨ ꯍꯩꯔꯤ꯫

ꯂꯥꯏꯅꯥ ꯇꯤꯜꯅ ꯉꯥꯛꯊꯣꯛꯆꯅꯕꯅꯤ ꯍꯥꯏꯗꯨꯅ ꯍꯤꯗꯥꯛꯈꯛꯇꯒꯤ ꯃꯇꯦꯡ ꯂꯧꯕꯒꯤ ꯃꯇꯝ ꯍꯦꯜꯂꯦ꯫ ꯑꯇꯣꯞꯄ
ꯊꯕꯛ ꯊꯣꯔꯝ ꯀꯌꯥꯒꯤ ꯃꯇꯦꯡꯅ ꯂꯥꯏꯅꯥ ꯑꯁꯤ ꯅꯟꯊꯍꯟꯅꯕ ꯑꯝꯗꯤ ꯄꯣꯠꯊꯣꯛ ꯍꯦꯟꯒꯠꯍꯟꯅꯕ ꯄꯨꯟꯅ
ꯍꯣꯠꯅꯃꯤꯟꯅꯕ ꯇꯉꯥꯏꯐꯗꯦ꯫

=

ꯗꯣ. ꯑꯦꯝ ꯊꯣꯏꯊꯣꯏ ꯁꯤꯡꯍ
ꯍꯨꯏꯌꯦꯟ ꯂꯥꯟꯄꯥꯎ ꯂꯤꯇꯔꯦꯔꯤ ꯀ꯭ꯋꯤꯖ - 10
ꯃꯊꯛꯇ ꯄꯤꯔꯤꯕ ꯋꯥꯍꯪꯁꯤꯡ ꯑꯁꯤꯒꯤ ꯄꯥꯎꯈꯨꯝ ꯖꯅ꯭ꯌꯨꯋꯥꯔꯤ 30, ꯊꯥꯡꯖ ꯅꯨꯃꯤꯠꯀꯤ
ꯑꯌꯨꯛ ꯄꯨꯡ 11 ꯐꯥꯎꯕꯒꯤ ꯃꯅꯨꯡꯗ ꯄꯥꯎꯆꯦ ꯑꯁꯤꯒꯤ ꯑꯣꯐꯤꯁꯇ ꯅꯠꯇ꯭ꯔꯒ ꯏ-ꯃꯦꯜ

hueiyenliteraryquiz@gmail.com sid meL AoIn

ꯊꯥꯕꯤꯔꯛꯄ ꯌꯥꯒꯅꯤ꯫ ꯄꯥꯎꯈꯨꯝ ꯄꯤꯕꯤꯔꯛꯄ/ꯊꯥꯕꯤꯔꯛꯄ ꯃꯇꯝꯗ ꯃꯤꯡ, ꯂꯩꯐꯝ,
ꯃꯍꯩꯒꯤ ꯊꯥꯛ ꯑꯝꯁꯨꯡ ꯀꯟꯇꯦꯛꯠ ꯅꯝꯕꯔ ꯃꯌꯦꯛ ꯁꯦꯡꯅ ꯏꯕꯤꯔꯛꯎ꯫ ꯋꯥꯍꯪ
ꯈꯨꯗꯤꯡꯃꯛꯀꯤ ꯄꯥꯎꯈꯨꯝ ꯆꯨꯝꯅ ꯅꯠꯇ꯭ꯔꯒ ꯃꯁꯤꯡ ꯌꯥꯝꯅ ꯆꯨꯝꯅ ꯄꯤꯕꯤꯔꯛꯄ
ꯃꯤꯑꯣꯁꯤꯡ ꯑꯗꯨꯒꯤ ꯗ꯭ꯔꯣ ꯑꯣꯠꯆꯔꯒ ꯂꯥꯏꯕꯛ ꯐꯕ ꯃꯤꯁꯛ ꯑꯃ ꯈꯟꯖꯒꯅꯤ꯫

ꯂꯣꯏꯅꯅ ꯈꯜꯂꯕ ꯃꯤꯁꯛ ꯑꯈꯨꯗ ꯃꯅꯥ ꯄꯤꯖꯒꯅꯤ꯫

1) ꯃꯅꯤꯄꯨꯔꯤ ꯁꯥꯍꯤꯇ꯭ꯌꯗ ꯏꯍꯥꯟ ꯍꯥꯟꯅ ꯑꯦꯁꯦ (ꯔꯆꯅ) ꯏꯗꯨꯅ ꯄꯨꯊꯣꯛꯈꯤꯕ ꯑꯏꯕꯗꯨ
ꯀꯅꯥꯅꯣ ꯑꯃꯁꯨꯡ ꯂꯥꯏꯔꯤꯛꯇꯨꯒꯤ ꯃꯃꯤꯡ ꯀꯔꯤꯅꯣ?

2) ꯃꯅꯤꯄꯨꯔꯒꯤ ꯑꯍꯥꯟꯕ ꯑꯦꯐ ꯑꯦ (ꯀꯣꯟꯅ ꯑꯥꯏ ꯑꯦ ꯍꯥꯏꯅ ꯈꯪꯅꯁꯤꯕ) ꯄꯥꯁ ꯇꯧꯈꯤꯕꯁꯤ
ꯀꯔꯝꯕ ꯆꯍꯤꯗꯅꯣ?

3) ꯑꯅꯤꯁꯨꯕ ꯃꯥꯂꯦꯝꯒꯤ ꯂꯥꯟꯖꯥꯎ ꯃꯇꯨꯡ ꯏꯍꯥꯟ ꯍꯥꯟꯕ ꯑꯣꯏꯅ ꯃꯅꯤꯄꯨꯔꯗ
ꯍꯟꯗꯣꯛꯄ ꯂꯥꯏꯔꯤꯛꯇꯨ ꯀꯔꯤꯅꯣ, ꯀꯅꯥꯅ ꯍꯟꯗꯣꯛꯄꯅꯣ ꯑꯃꯁꯨꯡ ꯀꯔꯝꯕ
ꯆꯍꯤꯗ ꯐꯣꯡꯈꯤꯕꯒꯦ?

4) “ꯁꯖꯤꯕꯨꯒꯤ ꯆꯤꯡꯊ꯭ꯔꯥꯎ ꯃꯄꯥꯜ” ꯍꯥꯏꯕ ꯂꯥꯏꯔꯤꯛꯁꯤ ꯀꯔꯝꯕ ꯃꯈꯜꯒꯤ
ꯂꯥꯏꯔꯤꯛꯅꯣ ꯑꯃꯁꯨꯡ ꯑꯏꯕꯁꯨ ꯀꯅꯥꯅꯣ?

5) “ꯍꯤꯖꯟ ꯍꯤꯔꯥꯎ” ꯍꯥꯏꯕ ꯑꯔꯤꯕ ꯁꯩꯔꯦꯡꯗ ꯃꯊꯪ ꯅꯨꯃꯤꯇꯇ ꯌꯥꯟꯒꯗꯧꯔꯕ,
ꯇꯂꯥ ꯎꯔꯥꯏ ꯊꯥꯗꯨꯅ ꯊꯝꯂꯝꯃꯕ ꯄꯥꯃꯦꯜ ꯇꯜꯂꯥ ꯆꯥꯎꯊꯣꯏꯕꯕꯨ ꯃꯊꯪ ꯅꯨꯃꯤꯠꯇꯒꯤ
ꯀꯥꯏꯅꯔꯒꯅꯤ, ꯀꯟꯕ ꯉꯝꯃꯔꯣꯏꯀꯣ ꯍꯥꯏꯅ ꯀꯞꯈꯤꯕ ꯃꯃꯥ ꯑꯗꯨꯅ ꯀꯅꯥꯅꯣ
(ꯀꯔꯤꯅꯣ)?

ꯏꯟꯗꯤꯌꯥ ꯑꯁꯤ ꯃꯥꯂꯦꯝꯒꯤ ꯑꯣꯏꯅ ꯍꯋꯥꯏ ꯊꯥꯕ ꯂꯝ ꯑꯃꯁꯨꯡ ꯈ꯭ꯋꯥꯏꯗꯒꯤ ꯌꯥꯝꯅ ꯍꯋꯥꯏ ꯄꯨꯊꯣꯛꯄ ꯂꯩꯕꯥꯛ
ꯑꯃ ꯑꯣꯏꯖꯔꯕꯗꯨ ꯍꯋꯥꯏ ꯆꯥꯕ ꯃꯤꯒꯤ ꯃꯁꯤꯡ ꯌꯥꯝꯕꯅ ꯃꯔꯝ ꯑꯣꯏꯗꯨꯅ ꯃꯄꯥꯟ ꯂꯩꯕꯥꯛꯇꯒꯤ ꯌꯥꯝꯂꯕ ꯍꯋꯥꯏꯒꯤ
ꯃꯈꯜꯁꯤꯡ ꯄꯨꯁꯤꯜꯂꯛꯂꯤ꯫ ꯍꯦꯟꯒꯠꯂꯤꯕ ꯃꯤꯁꯤꯡꯒ ꯆꯥꯟꯅꯅ ꯄꯣꯠꯊꯣꯛ ꯍꯦꯟꯒꯠꯄ ꯉꯝꯗꯕꯅ ꯃꯔꯝ
ꯑꯣꯏꯗꯨꯅ ꯀꯨꯝꯖꯥ 1960ꯗ ꯃꯤ ꯑꯃꯅ ꯅꯣꯡꯃꯗ ꯍꯋꯥꯏ ꯒ꯭ꯔꯥꯝ 65.5ꯒꯤ ꯆꯥꯡꯗ ꯐꯪꯂꯝꯕꯗꯨ ꯀꯨꯝꯖꯥ 2015ꯗ ꯃꯤ ꯑꯃꯅ
ꯅꯣꯡꯃꯗ ꯆꯥꯡꯆꯠꯇ ꯒ꯭ꯔꯥꯝ 30ꯒꯤ ꯃꯈꯥꯗ ꯊꯨꯡꯂꯦ꯫ ꯃꯁꯤꯁꯨ ꯆꯥꯡꯆꯠꯀꯤ ꯋꯥꯐꯝꯅꯤ꯫ ꯑꯗꯨꯕꯨ ꯂꯥꯏꯔꯕꯒꯤ ꯄꯟꯈꯩ
ꯃꯈꯥꯗ ꯂꯩꯕ ꯃꯤꯑꯣꯏꯁꯤꯡꯗꯤ ꯍꯋꯥꯏꯒꯤ ꯃꯃꯜꯅ ꯑꯇꯤꯌꯥ ꯄꯛꯅ ꯋꯥꯡꯈꯤꯕꯅ ꯃꯔꯝ ꯑꯣꯏꯗꯨꯅ ꯍꯋꯥꯏ ꯂꯩꯗꯨꯅ ꯆꯥꯕ
ꯉꯝꯗꯕꯅ ꯃꯔꯝ ꯑꯣꯏꯗꯨꯅ ꯗꯔꯀꯥꯔ ꯂꯩꯕ ꯄ꯭ꯔꯣꯇꯤꯟ ꯑꯃꯁꯨꯡ ꯀꯥꯔꯕꯣꯍꯥꯏꯗ꯭ꯔꯦꯠ ꯑꯁꯤ ꯐꯧ, ꯍꯦꯒꯨ, ꯆꯨꯇꯥꯛꯇꯤ
ꯐꯪꯅꯕ ꯍꯣꯠꯅꯔꯤ꯫

ꯇꯣꯉꯥꯟ ꯇꯣꯉꯥꯟꯕ ꯍꯋꯥꯏꯒꯤ ꯃꯈꯜꯁꯤꯡꯅ ꯃꯤꯑꯣꯏꯕꯗ ꯄ꯭ꯔꯣꯇꯤꯟ, ꯑꯃꯤꯅꯣ ꯑꯦꯁꯤꯗ, ꯃꯁꯤꯡꯒꯤ ꯁꯔꯨꯛ
(ꯐꯥꯏꯕꯔ) ꯑꯃꯗꯤ ꯃꯆꯤ ꯑꯣꯏꯕ ꯃꯆꯜꯁꯤꯡ ꯌꯥꯎꯕ ꯄꯣꯠꯂꯝꯁꯤꯡ (ꯃꯤꯅꯔꯦꯜ) ꯄꯤ꯫

ꯇꯣꯉꯥꯟ ꯇꯣꯉꯥꯟꯕ ꯍꯋꯥꯏ ꯃꯈꯜꯁꯤꯡꯗ ꯌꯥꯎꯔꯤꯕ ꯄ꯭ꯔꯣꯇꯤꯟ, ꯑꯄꯨꯟꯕ ꯃꯁꯤꯡ (Total ꯐꯤ ꯕꯔꯦ) ꯑꯃꯁꯨꯡ
ꯇꯨꯝꯕ ꯉꯝꯕ ꯃꯁꯤꯡ (Dietary ꯐꯤ ꯕꯦꯔ)
ꯍꯋꯥꯏꯒꯤ ꯃꯈꯜꯆꯥꯗ ꯌꯥꯎꯕꯆꯥꯗ ꯌꯥꯎꯕ ꯆꯥꯗ ꯌꯥꯎꯕ
ꯄ꯭ꯔꯣꯇꯤꯟꯒꯤ ꯆꯥꯡ ꯑꯄꯨꯟꯕ ꯃꯁꯤꯡꯒꯤꯇꯨꯝꯕ ꯉꯝꯕ ꯃꯁꯤꯡ
ꯆꯥꯡ (Total ꯐꯤ ꯕꯦꯔ) ꯒꯤ ꯆꯥꯡ (Dietary ꯐꯤ ꯕꯦꯔ)
ꯍꯋꯥꯏ ꯆꯥꯅꯥ 31.2 60.1-60.2 25.6
ꯍꯋꯥꯏ ꯃꯥꯏꯔꯣꯡꯕꯤ 31.0 57.3-58.7 15
ꯍꯋꯥꯏ ꯃꯨꯛ 24.5 53.3-58.7 15.2
ꯁꯒꯣꯜ ꯍꯋꯥꯏ 24.0 - -

ꯃꯨꯁꯣꯔꯤ 25.1 - 11.7
ꯍꯋꯥꯏ ꯑꯁꯥꯡꯕꯤ 24.0 - -

ꯀꯣꯂꯤ ꯍꯋꯥꯏ 23.9 56.3-60.5 25.4
(ꯔꯥꯖꯃꯥ)
ꯍꯋꯥꯏ ꯃꯪꯒꯜ 23.1 - 16.7
ꯄ꯭ꯔꯣꯇꯤꯟ : ꯇꯣꯉꯥꯟ ꯇꯣꯉꯥꯟꯕ ꯍꯋꯥꯏꯒꯤ ꯃꯈꯜꯁꯤꯡꯗ ꯌꯥꯎꯕ ꯄ꯭ꯔꯣꯇꯤꯟꯒꯤ ꯆꯥꯡ ꯃꯥꯟꯅꯗ꯭ꯔꯕꯁꯨ
ꯁꯥ-ꯉꯥ ꯂꯤꯛꯅ/ꯆꯥꯗꯕ ꯏꯟꯗꯤꯌꯥꯒꯨꯃꯕ ꯃꯐꯝꯗꯗꯤ ꯍꯋꯥꯏꯅ ꯃꯤꯑꯣꯏꯕꯒꯤ ꯗꯔꯀꯥꯔ ꯑꯣꯏꯕ ꯄ꯭ꯔꯣꯇꯤꯟꯒꯤ
ꯁꯔꯨꯛ ꯐꯪꯅꯕ ꯄꯥꯝꯕꯤ ꯑꯣꯏꯔꯤ꯫ ꯐꯧ, ꯒꯦꯍꯨ, ꯆꯨꯖꯥꯛꯇ ꯌꯥꯎꯕ ꯄ꯭ꯔꯣꯇꯤꯟꯒꯤ ꯁꯔꯨꯛꯇꯒꯤ ꯍꯋꯥꯏꯒ ꯌꯥꯎꯕ
ꯄ꯭ꯔꯣꯇꯤꯟꯅ ꯁꯔꯨꯛ ꯑꯍꯨꯝꯒꯨꯝꯕ ꯑꯣꯏ꯫ ꯆꯞ ꯃꯥꯟꯅꯕ ꯍꯋꯥꯏꯒꯤ ꯀꯥꯡꯂꯨꯞꯒꯤ ꯃꯅꯨꯡꯗ ꯂꯩꯕ ꯍꯋꯥꯏꯁꯤꯡꯗ
ꯃꯈꯜ ꯈꯦꯟꯅꯕꯅꯁꯨ ꯄ꯭ꯔꯣꯇꯤꯟ ꯌꯥꯎꯕꯒꯤ ꯆꯥꯡ ꯈꯦꯟꯅꯕ ꯌꯥꯎꯏ꯫

ꯑꯃꯔꯣꯃꯗ ꯑꯃꯨꯛ ꯍꯋꯥꯏꯁꯤꯡꯗ ꯍꯥꯞꯂꯤꯕ ꯍꯥꯔꯒꯤ ꯃꯈꯜ ꯑꯃꯁꯨꯡ ꯆꯥꯡ ꯈꯦꯟꯅꯕꯅ ꯄ꯭ꯔꯣꯇꯤꯟ
ꯌꯥꯎꯕꯒꯤ ꯆꯥꯡꯗ ꯈꯩꯟꯅꯍꯜꯂꯤ꯫ ꯑꯌꯥꯝꯕ ꯃꯇꯝꯗ ꯍꯋꯥꯏ ꯃꯈꯜꯁꯤꯡꯗꯤ ꯅꯨꯡꯁꯤꯠꯇꯒꯤ ꯅꯥꯏꯇ꯭ꯔꯣꯖꯦꯟ ꯐꯥ-

ꯗꯨꯅ ꯁꯤꯖꯤꯟꯅꯕ ꯉꯝꯕꯅ ꯃꯔꯝ AOidun ꯅꯥꯏꯇ꯭ꯔꯣꯖꯦꯟ ꯑꯁꯤ ꯆꯥꯡ ꯌꯥꯝꯅ ꯍꯥꯞꯇꯦ꯫ ꯑꯗꯨꯕꯨ ꯅꯨꯡꯁꯤꯠꯇꯒꯤ
ꯅꯥꯏꯇ꯭ꯔꯣꯖꯦꯟ ꯃꯔꯥꯡ ꯀꯥꯏꯅ ꯐꯥꯕ ꯉꯝꯗꯕ ꯀꯣꯂꯤ ꯍꯋꯥꯏ (ꯔꯥꯖꯃꯥ) ꯒꯨꯝꯕ ꯍꯋꯥꯏ ꯃꯈꯜꯁꯤꯡꯗꯤ ꯐꯧ, ꯒꯦꯍꯨ,
ꯆꯨꯖꯥꯛꯇ ꯍꯥꯞꯂꯤꯕ ꯅꯥꯏꯇ꯭ꯔꯣꯖꯦꯟ ꯆꯥꯡ ꯑꯗꯨ ꯌꯧꯅ ꯍꯥꯞꯂꯕ ꯀꯥꯟꯗ ꯄ꯭ꯔꯣꯇꯤꯟꯒꯤ ꯆꯥꯡ ꯑꯁꯤ ꯋꯥꯡꯅ ꯌꯥꯎꯔꯏ꯫

ꯍꯋꯥꯏ ꯊꯥꯕꯤꯕꯤ ꯃꯇꯝꯗ ꯐꯣꯐꯔꯁꯀꯤ ꯆꯥꯡ ꯋꯥꯡꯅ ꯍꯥꯞꯄ, ꯐꯣꯁꯐꯔꯁꯀꯤ ꯍꯥꯔꯒ ꯆꯥꯡ ꯀꯣꯟꯅ ꯐꯣꯁꯐꯔ-

ꯁꯄꯨ ꯇꯨꯝꯍꯟꯕ ꯉꯝꯕ ꯑꯍꯤꯡꯕ ꯖꯤꯕꯁꯤꯡ ꯍꯋꯥꯏ ꯃꯔꯨꯗ ꯇꯣꯠꯂꯒ ꯊꯥꯕꯤꯕ ꯅꯠꯇ꯭ꯔꯒ ꯁꯜꯐꯔ ꯑꯃꯁꯨꯡ
ꯖꯤꯡꯛ ꯌꯥꯎꯕ ꯍꯥꯔꯁꯤꯡ ꯍꯋꯥꯏ ꯊꯥꯕꯗ ꯍꯥꯞꯄꯤꯕꯅ ꯂꯣꯛꯀꯗꯧꯔꯤꯕ ꯍꯋꯥꯏ ꯃꯔꯨꯁꯤꯡꯗ ꯄ꯭ꯔꯣꯇꯤꯟꯒꯤ ꯆꯥꯡ
ꯋꯥꯡꯈꯠꯍꯜꯂꯤ꯫

ꯃꯤꯑꯣꯏꯕꯒꯤ ꯍꯛꯆꯥꯡ ꯁꯥꯒꯠꯄꯗ ꯆꯪꯂꯤꯕ ꯈ꯭ꯋꯥꯏꯗꯒꯤ ꯄꯤꯛꯄ ꯄꯣꯠꯂꯝ ꯑꯃ ꯑꯣꯏꯔꯤꯕ ꯁꯦꯜꯁꯤꯡ
ꯁꯥꯒꯠꯄꯗ ꯄ꯭ꯔꯣꯇꯤꯟ ꯌꯥꯎꯔꯤꯕꯅꯤ꯫ ꯁꯦꯜꯁꯤꯉꯒꯤ ꯑꯇꯦꯛ ꯑꯀꯥꯏ ꯁꯦꯝꯒꯠꯄ, ꯑꯅꯧꯕ ꯁꯦꯜꯁꯤꯡ
ꯄꯣꯛꯊꯣꯛꯄꯗ ꯄ꯭ꯔꯣꯇꯤꯟ ꯑꯁꯤ ꯌꯥꯎꯗ꯭ꯔꯕ ꯌꯥꯗ꯭ꯔꯕ ꯄꯣꯠꯂꯝ ꯑꯃꯅꯤ꯫ ꯑꯃꯔꯣꯝꯗ ꯑꯃꯨꯛ ꯏꯟ-

ꯈꯠꯂꯛꯂꯤꯕ ꯑꯉꯥꯡꯁꯤꯡ, ꯃꯤꯔꯣꯟꯕꯤ ꯑꯃꯗꯤ ꯈꯣꯝꯖꯤꯡꯕꯤ ꯃꯃꯥꯁꯤꯡꯗ ꯄ꯭ꯔꯣꯇꯤꯟ ꯃꯔꯥꯡ ꯀꯥꯏꯅ ꯌꯥꯎꯕ
ꯆꯤꯟꯖꯥꯛꯁꯤꯡ ꯅꯤꯡꯊꯤꯅ ꯄꯤꯖꯕꯤꯒꯗꯕꯅꯤ꯫ ꯃꯤ ꯑꯃꯅ ꯅꯣꯡꯃꯗ ꯗꯔꯀꯥꯔ ꯂꯩꯕ ꯀꯦꯂꯣꯔꯤꯒꯤ ꯆꯥꯡ ꯆꯥꯗ
10-35ꯗꯤ ꯄ꯭ꯔꯣꯇꯤꯟ ꯑꯣꯏꯒꯗꯕꯅꯤ꯫

ꯇꯣꯉꯥꯟ ꯇꯣꯉꯥꯟꯕ ꯃꯤꯑꯣꯏ ꯀꯥꯡꯂꯨꯞꯁꯤꯡꯅ ꯅꯣꯡꯃꯗ ꯗꯔꯀꯥꯔ ꯂꯩꯕ ꯄ꯭ꯔꯣꯇꯤꯟꯒꯤ ꯆꯥꯡ :-

ꯆꯍꯤ ꯑꯃꯁꯨꯡ ꯃꯤꯑꯣꯏ ꯀꯥꯡꯂꯨꯞ ꯄ꯭ꯔꯣꯇꯤꯟꯒꯤ ꯆꯥꯡ
(ꯒ꯭ꯔꯥꯝ)
ꯆꯍꯤ 4ꯒꯤ ꯃꯈꯥꯒꯤ ꯑꯉꯥꯡ 13
ꯆꯍꯤ 4-8 ꯒꯤ ꯑꯉꯥꯡ 19
ꯆꯍꯤ 9-13ꯒꯤ ꯑꯉꯥꯡ 34
ꯆꯍꯤ 14ꯒꯨ ꯃꯊꯛꯀꯤ ꯅꯨꯄꯤ ꯑꯃꯁꯨꯡ ꯅꯨꯄꯤꯃꯆꯥ 46
ꯆꯍꯤ 14-18ꯒꯤ ꯅꯨꯄꯥꯃꯆꯥ 52
ꯆꯍꯤ 19ꯒꯤ ꯃꯊꯛꯀꯤ ꯅꯨꯄꯥ 56
ꯃꯤꯔꯣꯟꯕꯤ ꯍꯨꯄꯤ 50
ꯊꯥ ꯌꯥꯝꯂꯕꯤ ꯃꯃꯥ ꯑꯃꯗꯤ ꯈꯣꯝꯖꯤꯡꯕꯤ ꯃꯃꯥ 74
ꯑꯦꯃꯤꯅꯣ ꯑꯦꯗꯤꯁꯗ :- ꯍꯋꯥꯏꯗꯒꯤ ꯐꯪꯒꯗꯧꯔꯤꯕ ꯄ꯭ꯔꯣꯇꯤꯟꯗ ꯇꯣꯉꯥꯟ ꯇꯣꯉꯥꯟꯕ ꯑꯦꯃꯤꯅꯣ ꯑꯦꯁꯤꯗ
ꯃꯈꯜ ꯀꯌꯥ ꯑꯃ ꯌꯥꯎꯔꯤ꯫ ꯆꯥꯡ ꯌꯥꯝꯖꯗ꯭ꯔꯕꯁꯨ ꯃꯤꯑꯣꯏꯕꯒꯤ ꯍꯛꯆꯥꯡꯗ ꯗꯔꯀꯥꯔ ꯂꯩꯕ ꯑꯇꯣꯞꯄ
ꯑꯃꯠꯇꯅ ꯃꯍꯨꯠ ꯁꯤꯟꯕ ꯌꯥꯗꯕ ꯑꯦꯃꯤꯅꯣ ꯑꯦꯁꯤꯗ 9 ꯃꯛ ꯍꯋꯥꯏꯒꯤ ꯄ꯭ꯔꯣꯇꯤꯟꯗꯒꯤ ꯐꯪꯏ꯫ ꯂꯣꯏꯅ-

ꯂꯣꯏꯅꯅ ꯑꯇꯣꯞꯄ ꯑꯦꯃꯤꯅꯣ ꯑꯦꯁꯤꯗꯀꯤ ꯃꯈꯜ 12 ꯑꯃꯁꯨꯡ ꯍꯋꯥꯏꯒꯤ ꯄ꯭ꯔꯣꯇꯤꯟꯗ ꯌꯥꯎꯔꯤ꯫ ꯇꯣꯉꯥꯟ
ꯇꯣꯉꯥꯟꯕ ꯑꯦꯃꯤꯅꯣ ꯑꯦꯁꯤꯗꯁꯤꯡꯒꯤ ꯃꯅꯨꯡꯗ ꯂꯥꯏꯁꯤꯟꯅ ꯃꯤꯑꯣꯏꯕꯒꯤ ꯍꯛꯆꯥꯡꯗ ꯀꯦꯜꯁꯤꯌꯝ
ꯆꯨꯞꯁꯤꯟꯕ, ꯁꯥꯗꯣꯡ ꯁꯦꯝꯒꯠꯄ, ꯑꯁꯣꯛ ꯑꯄꯟꯗꯒꯤ ꯑꯣꯏꯁꯤꯟꯍꯟꯕ, ꯍꯣꯔꯃꯣꯟ ꯑꯃꯁꯤ ꯑꯦꯟꯖꯥꯏꯝ
ꯁꯦꯝꯕꯗ ꯃꯇꯦꯡ ꯄꯥꯡꯏ꯫ ꯑꯃꯔꯣꯝꯗ ꯂꯥꯏꯁꯤꯟ ꯃꯔꯥꯡ ꯀꯥꯏꯅ ꯌꯥꯎꯕ ꯆꯤꯟꯖꯥꯛ ꯆꯥꯕꯅ ꯄꯨꯛꯅꯤꯡ ꯋꯥꯈꯜ
ꯂꯥꯡꯇꯛꯅꯕ ꯐꯍꯟꯕꯗ ꯃꯇꯦꯡ ꯄꯥꯡꯏ꯫ Methionine ꯀꯧꯕ ꯑꯦꯃꯤꯅꯣ ꯑꯦꯁꯤꯗ ꯑꯁꯤꯅ ꯌꯨꯅ ꯃꯔꯝ
ꯑꯣꯏꯔꯒ ꯂꯤꯚꯔ ꯁꯣꯛꯍꯟꯒꯗꯕꯒꯤ ꯆꯥꯡ ꯍꯟꯊꯍꯜꯂꯤ꯫ ꯑꯃꯔꯣꯝꯗ ꯑꯃꯨꯛ Cysteine ꯀꯧꯕ ꯑꯦꯃꯤꯅꯣ
ꯑꯦꯁꯤꯗꯇꯒꯤ ꯁꯦꯝꯗꯣꯛꯄ ꯑꯆꯦꯇꯌꯂ cysteine ꯀꯧꯕ ꯍꯤꯗꯥꯛ ꯃꯈꯜ ꯑꯁꯤꯅ ꯄꯦꯔꯥꯁꯤꯇꯥꯃꯣꯜ ꯍꯦꯟꯅ
ꯆꯥꯕꯗꯒꯤ ꯊꯣꯛꯍꯟꯕ ꯈꯨꯗꯣꯡꯆꯥꯗꯕꯁꯤꯡ ꯂꯥꯌꯦꯡꯕꯗ ꯁꯤꯖꯤꯟꯅꯩ꯫

ꯃꯁꯤꯡ (ꯚꯥꯏꯕꯔ) :- ꯇꯣꯉꯥꯟ ꯇꯣꯉꯥꯟꯕ ꯍꯋꯥꯏ ꯃꯈꯜꯁꯤꯡꯗ ꯇꯨꯝꯕ ꯉꯝꯕ ꯑꯃꯁꯨꯡ ꯉꯝꯗꯕ ꯃꯁꯤ-

ꯒꯤꯡꯒꯤ ꯁꯔꯨꯛꯁꯤꯡ ꯌꯥꯎꯔꯤ꯫ ꯇꯨꯝꯕ ꯉꯝꯕ ꯃꯁꯤꯒꯤ ꯁꯔꯨꯛꯅ ꯌꯥꯝꯕ ꯍꯋꯥꯏ ꯃꯈꯜꯁꯤꯡꯅ ꯏꯗ ꯌꯥꯎꯕ
ꯀꯣꯂꯦꯁꯇꯦꯔꯣꯜꯒꯤ ꯆꯥꯡ ꯅꯦꯝꯅ ꯊꯝꯕ ꯑꯃꯗꯤ ꯏꯗ ꯌꯥꯎꯒꯗꯕ ꯆꯤꯅꯤꯒꯤ ꯆꯥꯡ ꯆꯥꯅ ꯊꯝꯕꯗ ꯃꯇꯦꯡ ꯄꯥꯡꯏ꯫

ꯃꯤꯑꯣꯏꯕꯅ ꯍꯛꯆꯥꯡ ꯐꯅ ꯂꯩꯅꯕ ꯍꯣꯠꯅꯕꯗ ꯗꯔꯀꯥꯔ ꯂꯦꯕ ꯇꯣꯉꯥꯟ ꯇꯣꯉꯥꯟꯕ ꯄꯣꯠꯂꯝ ꯀꯌꯥ ꯑꯃ ꯌꯥꯎ-

ꯔꯤꯕ ꯍꯋꯥꯏ ꯑꯁꯤ ꯗꯔꯀꯥꯔ ꯂꯩꯕ ꯄꯣꯠꯊꯣꯛꯀꯤ ꯆꯥꯡ ꯑꯗꯨ ꯌꯧꯅ ꯄꯨꯊꯣꯛꯇꯨꯅ ꯃꯁꯥ ꯃꯎ ꯐꯕ ꯂꯝꯗꯝ ꯑꯃ
ꯑꯣꯏꯕꯗ ꯄꯨꯝꯅꯃꯛꯅ ꯁꯔꯨꯛ ꯌꯥꯃꯤꯟꯅꯔꯁꯤ꯫

=

ꯍꯛꯆꯥꯡ ꯐꯅ ꯂꯩꯅꯕ ꯍꯣꯠꯅꯕꯗ ꯍꯋꯥꯏꯒꯤ ꯃꯔꯨ ꯑꯣꯏꯕ
ꯗꯣ. ꯋꯥꯏꯈꯣꯝ ꯖꯤꯇꯦꯟ