ꯑꯦꯗꯤꯇꯣꯔꯤꯌꯦꯜ IMPHAL, WEDNESDAY, FEBRUARY 03, 2021 ꯌꯨꯝꯁꯀꯩꯁ, ꯋꯥꯛꯆꯤꯡꯒꯤ 21ꯅꯤ ꯄꯥꯟꯕ, ꯃꯥꯂꯤꯌꯥ ꯀꯨꯝꯁꯤꯡ 3418 obT\ꯂꯩ ꯃꯀꯩꯋ꯭ꯀ
2 HUEIYEN LANPAO

ꯍꯨꯏꯌꯦꯟ ꯂꯥꯟꯄꯥꯎ
ꯌꯨꯝꯁꯀꯩꯁ, ꯐꯦꯕ꯭ꯔꯨꯋꯥꯔꯤ 03, 2021, ꯏꯝꯐꯥꯜ
12 ꯁꯨꯕ ꯆꯍꯤ, 279 ꯁꯨꯕ ꯃꯁꯤꯡ
ꯄꯥꯎꯆꯦ ꯑꯁꯤꯗ ꯐꯣꯡꯖꯔꯤꯕ ꯋꯥꯔꯦꯡꯁꯤꯡ ꯑꯁꯤꯒꯤ ꯋꯥꯈꯜ, ꯃꯤꯠꯌꯦꯡ ꯑꯏꯕ ꯃꯁꯥ ꯃꯁꯥꯒꯤꯅꯤ꯫ ꯄꯥꯎꯆꯦ ꯑꯁꯤꯒ ꯄꯥꯎꯆꯦ ꯑꯁꯤꯒꯤ ꯋꯥꯈꯜꯂꯣꯟ ꯑꯃꯁꯨꯡ ꯃꯤꯠꯌꯦꯡꯒ ꯊꯣꯏꯗꯣꯛꯅ ꯃꯔꯤ ꯂꯩꯅꯗꯦ꯫

ꯂꯣꯅ ꯌꯥꯗꯕ ꯄꯣꯠ ꯐꯥꯕ
ꯐꯣꯔꯦꯁꯠ ꯗꯤꯄꯥꯔꯠꯃꯦꯟꯠꯀꯤ ꯑꯣꯐꯤꯁꯜꯁꯤꯡ ꯄꯨꯛꯆꯦꯜ ꯁꯦꯡꯅ ꯊꯕꯛ ꯇꯧꯔꯤꯕ꯭ꯔꯥ
ꯂꯣꯒꯤ ꯋꯥꯡꯃꯗ ꯊꯕꯛ ꯇꯧꯕ, ꯂꯣꯅ ꯌꯥꯗꯕ ꯄꯣꯠꯂꯝꯁꯤꯡ ꯅꯥꯔꯣꯅꯗ ꯄꯨꯕꯁꯤꯡ ꯐꯥꯗꯨꯅ ꯋꯥꯌꯦꯜꯁꯪ ꯌꯧꯍꯟꯗꯨꯅ ꯂꯣꯒꯤ ꯑꯣꯏꯕ ꯊꯕꯛ ꯂꯧꯈꯠꯄ ꯍꯥꯏꯕꯁꯤ
ꯀꯅꯥꯒꯨꯃꯕ ꯑꯀꯛꯅꯕ ꯀꯥꯡꯕꯨ ꯈꯔꯈꯛꯇꯗ ꯄꯥꯋꯔ ꯄꯤ꯫ ꯈꯨꯗꯝ ꯑꯣꯏꯅ ꯍꯥꯏꯔꯕꯗ ꯌꯨ
ꯉꯥꯎꯕ ꯃꯤꯑꯣꯏ ꯑꯃꯅ ꯀ꯭ꯔꯥꯏꯝ ꯑꯃ ꯆꯠꯊꯔꯛꯄꯗ ꯌꯨ ꯉꯥꯎꯏ ꯍꯥꯏꯗꯨꯅ ꯑꯦꯛꯁꯥꯏꯖ
ꯗꯤꯄꯥꯔꯠꯃꯦꯟꯠꯅ ꯃꯍꯥꯛꯀꯤ ꯃꯊꯛꯇ ꯊꯕꯛ ꯂꯧꯈꯠꯄ ꯆꯨꯝꯗꯦ꯫ ꯃꯤꯒꯤ ꯃꯄꯣꯠ ꯃꯆꯩ
ꯍꯨꯔꯥꯟꯕ ꯃꯤꯑꯣꯏ ꯑꯃ ꯅꯣꯡꯃꯩ ꯄꯥꯏ ꯍꯥꯏꯗꯨꯅ ꯂꯥꯝꯅꯤꯅ ꯐꯥꯔꯕꯁꯨ ꯃꯈꯣꯏꯅ ꯋꯥꯌꯦꯜꯁꯪꯗ
ꯄꯨꯊꯣꯛꯄ ꯌꯥꯗꯦ꯫ ꯄꯨꯂꯤꯁ, ꯑꯦꯛꯁꯥꯏꯖ, ꯏꯟꯀꯝ ꯇꯦꯛꯁ, ꯐꯣꯔꯦꯁꯠꯅꯆꯤꯡꯕ
ꯇꯣꯉꯥꯟ ꯇꯣꯉꯥꯟꯕ ꯗꯤꯄꯥꯔꯠꯃꯦꯟꯠꯁꯤꯡꯒꯤ ꯑꯀꯛꯅꯕ ꯃꯊꯧꯁꯤꯡ ꯂꯩꯖꯩ꯫ ꯄꯨꯂꯤꯁꯅ
ꯁꯤ ꯑꯥꯔ ꯄꯤ ꯁꯤ, ꯑꯥꯏ ꯄꯤ ꯁꯤꯒꯨꯝꯕꯒ ꯃꯔꯤ ꯂꯩꯅꯕ ꯂꯝꯁꯤꯡꯗꯇ ꯃꯊꯧ ꯇꯧꯒꯅꯤ꯫

ꯃꯌꯥꯏ ꯀꯥꯕ ꯆꯤꯟꯖꯥꯛꯀꯤ ꯃꯇꯥꯡꯗ ꯄꯜꯂꯛꯂꯒꯅ ꯑꯦꯛꯁꯥꯏꯖ, ꯅꯥꯔꯀꯣꯇꯤꯛꯁ
ꯑꯦꯟꯗ ꯑꯦꯐꯦꯌꯔꯁ ꯑꯣꯐ ꯕꯣꯔꯗꯔ (ꯑꯦꯟ ꯑꯦ ꯕꯤ) ꯅ ꯃꯄꯨꯡ ꯑꯣꯏꯅ ꯊꯕꯛ ꯇꯧꯏ꯫

ꯃꯄꯥꯟ ꯂꯝꯗꯒꯤ ꯄꯣꯠ-ꯆꯦ ꯄꯨꯁꯤꯜꯂꯛꯄꯁꯤꯡꯗꯒꯤ ꯇꯦꯛꯁ ꯈꯣꯝꯕꯒꯤ ꯊꯕꯛ
ꯅꯠꯇ꯭ꯔꯒ ꯐꯥꯕꯅꯆꯤꯡꯕꯒꯤ ꯊꯕꯛ ꯇꯦꯛꯁꯦꯁꯟ ꯀꯥꯡꯕꯨꯅ ꯑꯃꯁꯨꯡ ꯇꯣꯉꯥꯟ ꯇꯣꯉꯥꯟꯕ
ꯁꯤꯟꯐꯝꯗ ꯂꯩꯔꯤꯕ ꯃꯤꯑꯣꯏ ꯑꯃꯒꯤ ꯊꯏꯐꯝ ꯊꯣꯛꯄ ꯇꯦꯛꯁꯁꯤꯡ ꯊꯤꯔꯛꯇꯕꯒ
ꯃꯔꯤ ꯂꯩꯅꯅ ꯐꯥ ꯄꯨꯟꯕꯒꯤ ꯊꯕꯛꯅ ꯇꯦꯛꯁꯦꯁꯟ ꯗꯤꯄꯥꯔꯠꯃꯦꯟꯠꯅ ꯇꯧꯏ꯫ ꯍꯥꯏꯔꯤꯕ
ꯃꯊꯧꯁꯤꯡ ꯑꯁꯤ ꯆꯞ ꯆꯥꯅ ꯃꯈꯣꯏ ꯃꯈꯣꯏꯅ ꯇꯧꯔꯕ ꯃꯇꯝꯗꯇ ꯂꯩꯕꯥꯛ ꯑꯁꯤ ꯏꯪ ꯇꯞꯅ
ꯄꯥꯟꯒꯗꯧꯔꯤꯕꯅꯤ꯫ ꯃꯗꯨ ꯅꯠꯇꯅ ꯀꯥꯡꯕꯨ ꯑꯃꯅ ꯍꯦꯛ ꯎꯁꯤꯟꯅꯗꯅ ꯂꯩꯊꯣꯛꯈꯤꯕꯗ
ꯁꯤꯁꯇꯦꯝ ꯑꯃ ꯀꯥꯏꯔꯕ ꯈꯨꯟꯅꯥꯏ ꯑꯣꯏꯒꯗꯧꯔꯤꯕꯅꯤ꯫ ꯃꯅꯤꯄꯨꯔꯗꯗꯤ ꯑꯁꯤꯒꯨꯝꯕ
ꯗꯤꯄꯥꯔꯠꯃꯦꯟꯠꯁꯤꯡ ꯑꯁꯤ ꯄꯨꯂꯤꯁꯀꯤ ꯑꯣꯏꯅ ꯑꯃꯒꯤꯗꯁꯨ ꯑꯃꯒꯤꯗꯁꯨ ꯏꯔꯥꯝꯗ
ꯂꯥꯝꯁꯤꯟꯅꯕꯗꯧꯅ ꯇꯧꯏ꯫ ꯈꯨꯗꯝ ꯑꯣꯏꯅ ꯄꯟꯕ ꯇꯥꯔꯕꯗ ꯇ꯭ꯔꯥꯐꯤꯛ ꯄꯨꯂꯤꯁꯇ
ꯁꯤꯟꯅꯔꯤꯕ ꯊꯣꯗꯥꯡ ꯑꯁꯤ ꯑꯥꯏꯟ ꯀꯥꯏꯅ ꯒꯥꯔꯤ ꯍꯧꯕꯁꯤꯡꯒꯤ ꯃꯊꯛꯇ ꯊꯕꯛ
ꯂꯧꯈꯠꯄ ꯑꯝꯁꯨꯡ ꯂꯝꯕꯤ ꯆꯠꯄꯗ ꯃꯤꯌꯥꯝꯅ ꯈꯨꯗꯣꯡꯆꯥꯅꯅꯕ ꯊꯕꯛ ꯄꯥꯏꯈꯠꯄꯅꯤ꯫

ꯇ꯭ꯔꯥꯐꯤꯛ ꯄꯨꯂꯤꯁꯅ ꯃꯈꯣꯏꯒꯤ ꯃꯣꯕꯥꯏꯜ ꯌꯨꯅꯤꯠꯁꯤꯡ ꯊꯥꯗꯣꯛꯇꯨꯅ ꯂꯝꯕꯤ ꯆꯠꯄꯗ
ꯈꯨꯗꯣꯡꯆꯥꯗ꯭ꯔꯤꯕꯁꯤꯡ ꯑꯁꯤ ꯀꯣꯛꯍꯟꯅꯅꯕ ꯊꯕꯛ ꯂꯧꯈꯠꯄꯗꯒꯤ ꯒꯥꯔꯤ ꯐꯥꯕꯅ
ꯍꯦꯟꯅ ꯊꯋꯥꯏ ꯌꯥꯎꯁꯤꯟꯕꯒꯨꯝꯅ ꯇꯧꯔꯦ꯫ ꯂꯝꯕꯤꯒꯤ ꯈꯨꯗꯣꯡꯊꯤꯕ ꯊꯣꯛꯇꯅꯕ ꯊꯧꯔꯥꯡ
ꯂꯧꯈꯠꯄꯅꯤ ꯍꯥꯏꯕꯒꯤ ꯃꯤꯡꯗ ꯁꯍꯔ ꯑꯁꯤꯒꯤ ꯃꯐꯝ ꯃꯔꯤ ꯃꯉꯥꯗ ꯃꯣꯕꯥꯏ ꯇꯤꯝ
ꯊꯥꯗꯣꯛꯇꯨꯅ ꯑꯆꯠ-ꯑꯑꯣꯛ ꯇꯧꯕꯁꯤꯉꯒꯤ ꯒꯥꯔꯤꯒꯤ ꯆꯦ-ꯆꯥꯡ ꯆꯦꯛ ꯇꯧꯗꯨꯅ ꯂꯩꯔꯦ꯫

ꯃꯈꯣꯏꯗꯒꯤ ꯆꯦ-ꯆꯥꯗ ꯁꯨꯗꯦ ꯍꯥꯏꯗꯨꯅ ꯇꯤ ꯑꯥꯔ ꯀꯀꯏ꯫ ꯀꯛꯏꯕ ꯁꯦꯟꯐꯝ ꯑꯗꯨ
ꯁꯔꯀꯥꯒꯤ ꯑꯦꯀꯥꯎꯟꯠꯇ ꯆꯪꯕ ꯇꯥꯔꯕꯁꯨ ꯇꯧꯒꯗꯕ ꯊꯕꯛꯇꯤ ꯅꯤꯡꯊꯤꯅ ꯇꯧꯗꯦ ꯍꯥꯏꯕ
ꯌꯥꯏ꯫ ꯄꯥꯎꯅꯥ, ꯊꯪꯒꯥꯜ ꯑꯃꯁꯨꯡ ꯁꯍꯔ ꯃꯅꯨꯡꯒꯤ ꯂꯝꯕꯤꯁꯤꯡꯗ ꯃꯊꯣꯡ ꯃꯔꯝ
ꯈꯪꯗꯅ ꯒꯥꯔꯤ ꯄꯪꯊꯥꯗ ꯊꯥꯖꯤꯟꯗꯨꯅ ꯂꯝꯕꯤ ꯆꯠꯄꯗ ꯊꯣꯛꯂꯤꯕ ꯈꯨꯗꯣꯡꯆꯥꯗꯕꯁꯤꯡ
ꯑꯁꯤ ꯀꯣꯛꯍꯟꯅꯕ ꯑꯈꯟꯅꯕ ꯊꯕꯛ ꯂꯧꯈꯠꯄ ꯃꯊꯧ ꯇꯥꯏ꯫ ꯃꯈꯣꯏꯕꯨ ꯐꯥꯔꯒ ꯇꯤ
ꯑꯥꯔ ꯀꯛꯄ ꯌꯥꯏ꯫ mSOid ꯑꯀꯤ ꯑꯈꯪ ꯌꯥꯎꯗꯅ ꯊꯕꯛ ꯇꯧꯕ ꯌꯥꯅꯕ ꯁꯔꯀꯥꯔꯅꯁꯨ
ꯈꯨꯠꯂꯥꯏ ꯄꯤꯕ ꯆꯨꯃꯏ꯫ ꯅꯦꯁꯅꯦꯜ ꯍꯥꯏꯋꯦ 39ꯒꯤ ꯂꯝꯕꯤꯒꯤ ꯃꯇꯥꯏꯗ ꯂꯩꯔꯤꯕ ꯁꯤꯚꯤꯜ
ꯁꯦꯀ꯭ꯔꯦꯇꯔꯤꯑꯦꯠ, ꯃꯤꯅꯤꯁꯇ꯭ꯔꯦꯜ ꯕ꯭ꯂꯣꯛ, ꯖꯦꯅꯔꯦꯜ ꯄꯣꯁꯠ ꯑꯣꯐꯤꯁ, ꯕꯤ ꯑꯦꯁ
ꯑꯦꯟ ꯑꯦꯜꯒꯤ ꯑꯣꯐꯤꯁꯅꯆꯤꯡꯕꯒꯤ ꯃꯃꯥꯡꯗ ꯈꯥꯝꯖꯤꯜꯂꯤꯕ ꯒꯥꯔꯤ ꯃꯌꯥꯝꯁꯤꯡ ꯑꯁꯤ
ꯀꯝꯗꯧꯅ ꯄꯔꯝ ꯆꯨꯝꯅ ꯊꯥꯔꯤꯕꯒꯦ ꯍꯥꯏꯕ ꯑꯣꯐꯤꯁ ꯑꯋꯥꯔ ꯃꯇꯝꯗ ꯍꯟꯖꯤꯟ-

ꯍꯟꯖꯤꯟꯅ ꯌꯦꯡꯐꯝ ꯊꯣꯛꯏ꯫ ꯂꯩꯉꯥꯛꯅ ꯄꯤꯕ ꯄꯥꯔꯀꯤꯡꯗ ꯒꯥꯔꯤ ꯈꯥꯝꯕꯒꯤ ꯃꯍꯨꯠꯇ
ꯃꯤꯌꯥꯝꯗ ꯑꯀꯥꯏꯕ ꯄꯤꯒꯗꯕ ꯃꯐꯝꯗ ꯒꯥꯔꯤ ꯈꯥꯝꯕꯁꯤꯡꯒꯤ ꯃꯊꯛꯇ ꯂꯧꯈꯠꯐꯝ
ꯊꯣꯛꯄ ꯊꯕꯛ ꯂꯧꯈꯠꯄ ꯌꯥꯏ꯫ ꯑꯁꯤꯒꯨꯝꯕ ꯊꯕꯛꯇꯒꯤ ꯍꯦꯟꯟ ꯒꯥꯔꯤꯒꯤ ꯆꯦ-ꯆꯥꯡ
ꯁꯨꯗꯕ ꯃꯤꯑꯣꯏ ꯊꯤꯕꯔꯣꯃꯗ ꯊꯕꯛ ꯇꯧꯔꯦ꯫ ꯁꯝꯅ ꯍꯥꯏꯔꯕꯗ ꯑꯣꯇꯣ ꯔꯤꯛꯁꯣꯒꯤ ꯆꯦ-

ꯆꯥꯡ ꯄꯥꯅꯅꯕ ꯇ꯭ꯔꯥꯐꯤꯛ ꯄꯨꯂꯤꯁ ꯂꯩꯕꯗꯧꯅ ꯇꯧꯔꯤꯕꯁꯤ ꯃꯀꯣꯛ ꯊꯣꯡꯕ ꯑꯣꯐꯤꯁꯜꯁꯤꯡꯅ
ꯁꯦꯝꯗꯣꯛꯍꯟꯅꯤꯡꯏ꯫

ꯆꯍꯤ ꯈꯔꯒꯤ ꯃꯃꯥꯡꯗ ꯑꯦꯛꯁ ꯑꯦꯝ ꯑꯦꯜ ꯑꯦ ꯑꯃꯒꯤ ꯁꯪꯒꯣꯏꯗꯒꯤ ꯂꯨꯄꯥ ꯀ꯭ꯔꯣꯔ
ꯑꯍꯨꯝꯔꯣꯝꯒꯤ ꯔꯦꯗ ꯁꯟꯗꯔ ꯋꯨꯗ ꯐꯥꯕꯒꯤ ꯊꯧꯗꯣꯛ ꯊꯣꯛꯈ꯭ꯔꯦ꯫ ꯊꯥꯡꯃꯩꯕꯟꯗꯗ ꯂꯩꯕ
ꯁꯛꯅꯥꯏꯔꯕ ꯃꯤꯑꯣꯏ iAmgi ꯌꯨꯝꯗꯒꯤ ꯌꯨꯉꯥꯡ ꯀꯌꯥꯃꯔꯨꯝ ꯐꯥꯒꯠꯈꯤꯕ ꯌꯥꯎꯈ꯭ꯔꯦ꯫

ꯑꯦꯝ ꯑꯦꯜ ꯑꯦꯁꯤꯡꯒꯤ ꯀ꯭ꯋꯥꯇꯔꯗꯒꯤ ꯑꯥꯏꯅꯒꯤ ꯋꯥꯡꯃꯗ ꯊꯝꯂꯝꯕ ꯅꯣꯡꯃꯩ ꯐꯥꯎꯕ
ꯐꯥꯒꯠꯈꯤꯕꯒꯤ ꯋꯥꯊꯣꯛ ꯂꯩꯈ꯭ꯔꯦ꯫ ꯑꯥꯏꯟꯅ ꯌꯥꯗꯕ ꯈꯨꯠꯂꯥꯏ ꯄꯥꯏꯕ ꯀꯥꯡꯕꯨꯒ ꯑꯦꯝ ꯑꯦꯜ
ꯑꯦꯒ ꯆꯠꯃꯤꯟꯅꯕꯗ ꯐꯥꯕꯒꯤ ꯊꯧꯗꯣꯛ-ꯋꯥꯊꯣꯛꯁꯤꯡ ꯊꯣꯛꯈ꯭ꯔꯦ꯫ ꯑꯗꯨꯕꯨ ꯊꯧꯗꯣꯛꯁꯤꯡ
ꯑꯁꯤꯗ ꯄꯨꯂꯤꯁꯅ ꯀꯌꯥꯃꯨꯛ ꯌꯥꯝꯅ ꯄꯨꯛꯆꯦꯜ ꯁꯦꯡꯅ ꯊꯕꯛ ꯇꯧꯈꯤꯕꯒꯦ ꯍꯥꯏꯕꯗꯤ
ꯍꯧꯖꯤꯛꯁꯨ ꯃꯤꯌꯥꯝꯅ ꯋꯥꯍꯪ ꯑꯣꯏꯅ ꯍꯪꯅꯔꯤ꯫ ꯑꯊꯤꯡꯕ ꯊꯝꯈ꯭ꯔꯕ ꯎ-ꯋꯥ ꯄꯨꯊꯣꯛ
ꯄꯨꯁꯤꯟ ꯇꯣꯕ ꯌꯥꯗꯦ ꯍꯥꯏꯕ ꯂꯩꯅ ꯂꯩꯅ ꯂꯩꯕꯥꯛ ꯑꯁꯤꯒꯤ ꯅꯦꯁꯅꯦꯜ ꯍꯥꯏꯋꯦꯁꯤꯡꯗ
ꯑꯁꯤꯒꯨꯝꯕ ꯄꯣꯠꯂꯝ ꯑꯁꯤꯕꯨ ꯀꯝꯗꯧꯅ ꯄꯨꯁꯤꯜꯂꯛꯂꯤꯕꯅꯣ ꯍꯥꯏꯕꯁꯤꯁꯨ ꯑꯉꯛꯄ
ꯋꯥꯍꯪ ꯑꯝꯅꯤ꯫ ꯁ꯭ꯇꯦꯠ ꯑꯁꯤ ꯐꯥꯎꯗꯨꯅ ꯆꯇꯂꯤꯕ ꯅꯦꯁꯅꯦꯜ ꯍꯥꯏꯋꯦꯁꯤꯡꯗ ꯂꯥꯟꯃꯤꯒꯤ,
ꯄꯨꯂꯤꯁꯀꯤ, ꯑꯦꯛꯁꯥꯏꯖ ꯑꯃꯁꯨꯡ ꯐꯣꯔꯦꯁꯠꯀꯤ ꯆꯦꯛ ꯄꯣꯁꯠꯁꯤꯡ ꯍꯥꯡꯗꯨꯅ ꯊꯝꯂꯤ꯫

ꯎ ꯂꯜꯂꯣꯟꯕ ꯀꯥꯡꯕꯨꯅ ꯂꯣꯒꯤ ꯋꯥꯡꯃꯗ ꯎꯖꯥꯎ ꯀꯌꯥ ꯄꯨꯊꯣꯛ ꯄꯨꯁꯤꯟ ꯇꯧꯔꯤ꯫ ꯂꯣꯒꯤ
ꯋꯥꯡꯃꯗ ꯄꯨꯔꯛꯄ ꯎꯖꯥꯎ ꯀꯌꯥ ꯁꯤꯀ꯭ꯌꯨꯔꯤꯇꯤ ꯐꯣꯔꯁꯁꯤꯡꯅ ꯐꯥꯕꯒꯤ ꯄꯥꯎꯁꯨ ꯂꯦꯞꯇꯅ
ꯇꯥꯔꯤ꯫ ꯃꯔꯨꯑꯣꯏꯅ ꯐꯣꯔꯦꯁꯠ ꯗꯤꯄꯥꯔꯠꯃꯦꯟꯠꯅ ꯄꯥꯏꯈꯠꯀꯗꯕ ꯊꯕꯛꯁꯤꯡꯒꯤ
ꯃꯅꯨꯡꯗ ꯎꯃꯪꯒꯤ ꯄꯣꯠꯊꯣꯛ ꯌꯣꯛꯈꯠꯇꯨꯅ ꯊꯝꯕ, ꯂꯝꯂꯛꯀꯤ ꯁꯥ ꯎꯆꯦꯛ ꯉꯥꯛ ꯁꯦꯟꯕ,
ꯌꯥꯟꯕ ꯌꯥꯔꯣꯏ ꯍꯥꯏꯅ ꯑꯊꯤꯡꯕ ꯊꯝꯈ꯭ꯔꯕ ꯎ-ꯋꯥ ꯌꯥꯟꯕ ꯃꯤꯑꯣꯏ ꯐꯥꯒꯠꯄ ꯑꯃꯁꯨꯡ
ꯆꯩꯔꯥꯛ ꯄꯤꯕ, ꯂꯝꯕꯤꯗ ꯑꯥꯏꯟ ꯀꯥꯏꯅ ꯎ-ꯋꯥ ꯄꯨꯔꯛꯄꯅꯆꯤꯡꯕ ꯊꯕꯛ ꯊꯧꯔꯝꯁꯤꯡ
ꯌꯥꯎꯏ꯫ ꯃꯁꯤꯒꯤꯗꯃꯛ ꯐꯣꯔꯦꯁꯠ ꯗꯤꯄꯥꯔꯠꯃꯦꯟꯠꯀꯤ ꯇꯣꯉꯥꯟ ꯇꯣꯉꯥꯟꯕ ꯐꯝꯁꯤꯡ
ꯍꯥꯞꯇꯨꯅ ꯊꯝꯃꯤ꯫ ꯐꯣꯔꯦꯁꯠ ꯕꯤꯠ ꯇꯣꯉꯥꯟꯅ ꯁꯦꯝꯒꯠꯂꯤ꯫ ꯑꯗꯨꯕꯨ ꯌꯥꯝꯕ ꯌꯥꯗꯦ
ꯍꯥꯏꯅ ꯑꯊꯤꯡꯕ ꯊꯝꯈ꯭ꯔꯕ ꯃꯈꯜ ꯀꯌꯥꯒꯤ ꯎꯁꯤꯡ ꯐꯣꯔꯦꯁꯠꯀꯤ ꯆꯦꯛ ꯄꯣꯁꯠꯁꯤꯡ
ꯐꯥꯎꯔꯒ ꯆꯠꯍꯜꯂꯤ꯫ ꯐꯣꯔꯦꯁꯠꯀꯤ ꯑꯣꯐꯤꯁꯜꯁꯤꯡ ꯄꯣꯁꯠ ꯄꯤꯛꯂꯕꯁꯨ ꯃꯈꯣꯏꯒꯤ
ꯏꯟꯀꯝꯒ ꯃꯔꯜ-ꯃꯊꯨꯝꯒ ꯆꯥꯟꯅꯕ꯭ꯔꯥ ꯍꯥꯏꯕ ꯀꯅꯥꯃꯠꯇꯅ yueZsiNde꯫ ꯂꯩꯉꯥꯛꯀꯤ
ꯊꯕꯛ ꯈꯨꯠꯇꯧꯗ ꯌꯦꯡꯁꯤꯟꯕ ꯁꯥꯠꯄꯒꯤ ꯃꯃꯤ ꯇꯥꯕꯅ ꯂꯩꯉꯥꯛꯀꯤ ꯑꯣꯐꯤꯁꯜ ꯀꯌꯥꯗ
ꯀ꯭ꯔꯣꯔꯄꯇꯤ ꯑꯣꯏꯗꯨꯅ ꯍꯤꯡꯂꯤ꯫ ꯁ꯭ꯇꯦꯠ ꯑꯁꯤꯒꯤ ꯎꯃꯪ-ꯋꯥꯃꯪ ꯀꯌꯥ ꯃꯥꯡꯁꯤꯜꯂꯛꯂꯤꯕ
ꯑꯁꯤꯗ ꯅꯥꯔꯣꯟꯗ ꯎ ꯂꯜꯂꯣꯟꯕ ꯈꯨꯠꯄꯨ ꯑꯃ ꯁꯣꯏꯗꯅ ꯂꯩꯔꯝꯒꯅꯤ꯫ ꯈꯨꯠꯄꯨ ꯑꯁꯤꯗ
ꯑꯉꯝ ꯑꯊꯧꯁꯤꯡꯁꯨ ꯌꯥꯎꯔꯝꯂꯣꯏ ꯍꯥꯏꯅꯤꯡꯉꯥꯏ ꯂꯩꯇꯦ꯫ ꯆꯤꯐ ꯃꯤꯅꯤꯁꯇꯔ ꯑꯦꯟ
ꯕꯤꯔꯦꯟꯅ ꯂꯝꯗꯝ ꯑꯁꯤꯒꯤ ꯆꯤꯡꯒꯤ ꯗꯤꯁꯇ꯭ꯔꯤꯛꯠꯁꯤꯡꯗ ꯂꯩꯔꯤꯕ ꯎꯃꯪꯁꯤꯡ
ꯀꯜꯍꯧꯗ꯭ꯔꯕꯗꯤ ꯃꯅꯤꯄꯨꯔ ꯑꯁꯤ ꯄꯨꯝꯂꯣꯏ ꯂꯣꯏꯕ ꯍꯥꯏꯕꯗꯨ ꯑꯣꯏꯔꯒꯅꯤ ꯍꯥꯏꯅꯁꯨ
ꯍꯟꯛꯗꯇ ꯐꯣꯡꯗꯣꯛꯈ꯭ꯔꯦ꯫ ꯆꯤꯐ ꯃꯤꯅꯤꯁꯇꯔꯅ ꯎꯃꯪ ꯀꯟꯕ ꯄꯥꯝꯂꯕꯁꯨ ꯃꯔꯤ
ꯂꯩꯅꯕ ꯐꯣꯔꯦꯁꯠ ꯗꯤꯄꯥꯔꯠꯃꯦꯟꯠꯀꯤ ꯑꯣꯐꯤꯁꯜꯁꯤꯡꯅ ꯄꯨꯛꯆꯦꯜ ꯁꯦꯡꯗ꯭ꯔꯕꯗꯤ
ꯎꯃꯪꯁꯤꯡ ꯀꯟꯕ ꯍꯥꯏꯕꯁꯤ ꯇꯔꯥꯏꯕ ꯑꯃꯗꯤ ꯑꯣꯏꯔꯣꯏ꯫ ꯃꯇꯥꯡ ꯑꯁꯤꯗ ꯐꯣꯔꯦꯁꯠ
ꯗꯤꯄꯥꯔꯠꯃꯦꯟꯠꯀꯤ ꯑꯣꯐꯤꯁꯜꯁꯤꯡ ꯄꯨꯛꯆꯦꯜ ꯁꯦꯡꯅ ꯊꯕꯛ ꯇꯧꯔꯤꯕ꯭ꯔꯥ ꯍꯥꯏꯕꯁꯤ
ꯄꯨꯝꯅꯃꯛꯅ ꯍꯪꯅꯔꯛꯂꯤꯕ ꯋꯥꯍꯪ ꯑꯃ ꯑꯣꯏꯔꯦ꯫

ꯍꯨꯏꯌꯦꯟ ꯂꯥꯟꯄꯥꯎ ꯂꯤꯇꯔꯦꯔꯤ ꯀ꯭ꯋꯤꯖ - 11
ꯃꯊꯛꯇ ꯄꯤꯔꯤꯕ ꯋꯥꯍꯪꯁꯤꯡ ꯑꯁꯤꯒꯤ ꯄꯥꯎꯈꯨꯝ ꯐꯦꯕ꯭ꯔꯨꯋꯥꯔꯤ 15, ꯊꯥꯡꯖ ꯅꯨꯃꯤꯠꯀꯤ
ꯑꯌꯨꯛ ꯄꯨꯡ 11 ꯐꯥꯎꯕꯒꯤ ꯃꯅꯨꯡꯗ ꯄꯥꯎꯆꯦ ꯑꯁꯤꯒꯤ ꯑꯣꯐꯤꯁꯇ ꯅꯠꯇ꯭ꯔꯒ ꯏ-ꯃꯦꯜ

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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) ꯃꯅꯤꯄꯨꯔꯤꯗ ꯏꯍꯥꯟ ꯍꯟꯕ ꯃꯄꯨꯡ ꯐꯥꯅ ꯁꯥꯡꯕ ꯗ꯭ꯔꯥꯃꯥ ꯁꯥꯟꯅꯗꯨꯅ ꯎꯠꯈꯤꯕ ꯑꯁꯤ
ꯀꯔꯝꯕ ꯆꯍꯤꯗꯅꯣ? ꯗ꯭ꯔꯥꯃꯥ ꯑꯗꯨꯒꯤ ꯃꯃꯤꯡ ꯀꯔꯤ ꯀꯧꯕꯒꯦ ꯑꯝꯗꯤ ꯀꯅꯥꯅ ꯏꯕꯅꯣ?

2) ꯍꯧꯈꯤꯕ ꯆꯍꯤ 2020 ꯒꯤ ꯑꯣꯛꯇꯣꯕꯔ ꯊꯥꯗ ‘ꯎꯁꯤꯟ’ ꯍꯥꯏꯕ ꯂꯥꯏꯔꯤꯛ ꯑꯁꯤ ꯐꯣꯡꯈꯤ꯫

ꯂꯥꯏꯔꯤꯛ ꯑꯁꯤ ꯀꯅꯥꯅ ꯏꯕꯅꯣ ꯑꯃꯁꯨꯡ ꯀꯔꯝꯕ ꯃꯈꯜꯒꯤ ꯂꯥꯏꯔꯤꯛꯅꯣ?

3) ‘ꯒ꯭ꯌꯥꯒꯄꯇ꯭ꯔ’ ꯍꯥꯏꯕꯁꯤ ꯀꯅꯥꯅ ꯏꯕ ꯂꯥꯏꯔꯤꯛꯅꯣ ꯑꯃꯁꯨꯡ ꯃꯅꯤꯄꯨꯔꯤꯗ ꯀꯅꯥꯅ
ꯍꯟꯗꯣꯛꯄꯒꯦ?

4) ꯁꯛꯅꯥꯏꯔꯕ ꯀꯂꯥꯀꯥꯔ ꯑꯃꯅ ‘ꯁ꯭ꯔꯤꯁ꯭ꯔꯤ ꯒꯧꯔ ꯒꯣꯕꯤꯟꯗꯒꯤ ꯊꯧꯔꯝ ꯄꯔꯦꯡ’

ꯍꯥꯏꯕꯁꯤ ꯏꯗꯨꯅ ꯄꯨꯊꯣꯛꯈꯤ꯫ ꯀꯂꯥꯀꯥꯔ ꯑꯁꯤ ꯀꯅꯥꯅꯣ?

5) ‘ꯁꯒꯣꯜ ꯇꯣꯡꯕ ꯀꯥꯏꯔꯪꯕ/ꯅꯪꯕꯨ ꯇꯣꯡꯕ ꯌꯥꯡꯗꯦꯗ/ꯂꯝꯒꯤ ꯄꯥꯅ ꯈꯣꯡꯁꯥꯡꯕꯤ/ꯅꯪꯕꯨ
ꯁꯥꯏꯕ ꯉꯥꯡꯗꯦꯗ/ꯏꯃꯤꯡ ꯏꯃꯥꯡ ꯍꯥꯏꯔꯧꯅ/ꯈꯨꯕꯥꯛ ꯍꯥꯏꯔꯧꯅ/ꯍꯪꯆꯦ ꯀꯣꯜꯂꯣ꯫’ ꯁꯩꯔꯦꯡ
ꯃꯇꯦꯛ ꯑꯁꯤ ꯑꯔꯤꯕ ꯁꯩꯔꯦꯡ ꯑꯃꯗꯒꯤ ꯂꯧꯊꯣꯔꯛꯄꯅꯤ꯫ ꯀꯔꯤ ꯁꯩꯔꯣꯡꯗꯒꯤꯅꯣ?

Cannabis ꯁꯥꯇꯤꯚꯥ, ꯒꯟꯖꯥ ꯍꯥꯏꯅ ꯈꯪꯅꯔꯤꯕꯤ ꯄꯥꯝꯕꯤ ꯑꯁꯤ ꯏꯪꯂꯤꯁꯇ ꯆꯍꯤ ꯂꯤꯁꯤꯡ
ꯀꯌꯥꯒꯤ ꯃꯃꯥꯡꯗꯒꯤ ꯍꯤꯗꯥꯛ ꯑꯣꯏꯅ ꯁꯤꯖꯤꯟꯅꯔꯛꯏ꯫ ꯑꯃꯦꯔꯤꯀꯥꯟ ꯃꯦꯗꯤꯀꯦꯜ ꯑꯦꯁꯣꯁꯤꯑꯦꯁꯟꯅ
ꯀꯨꯝꯖꯥ 1942ꯒꯤ ꯇꯔꯥꯅꯤꯊꯣꯏꯁꯨꯕ ꯌꯨ ꯑꯩꯁ ꯐꯥꯔꯃꯥꯀꯣꯄꯤꯌꯥꯗꯒꯤ ꯂꯧꯊꯣꯛꯇ꯭ꯔꯤꯉꯩꯗ ꯆꯍꯤ ꯆꯥ ꯑꯃꯃꯨꯛ
ꯂꯤꯆꯦꯅꯁꯦꯗ ꯃꯦꯗꯤꯆꯤꯅꯦ ꯑꯣꯏꯅ ꯑꯃꯦꯔꯤꯀꯥꯗ ꯁꯤꯖꯤꯟꯅꯔꯝꯃꯤ꯫ ꯀꯨꯝꯖꯥ 1985ꯗ ꯍꯤꯗꯥꯛ-ꯂꯥꯡꯊꯛ
ꯁꯥꯕ ꯀꯝꯄꯦꯅꯤꯁꯤꯡꯅ ꯇꯦꯇꯔꯥꯍꯌꯗꯔꯣꯪꯌ ꯆꯥꯅꯅꯤꯕꯣꯂ ꯁꯥꯕꯒꯤ ꯑꯌꯥꯕ ꯐꯪꯕꯗꯒꯤ ꯒꯟꯖꯥꯗꯒꯤ ꯁꯨꯡꯗꯣꯛꯄ

cannabinoid ꯁꯤꯡ ꯑꯅꯥ-ꯂꯥꯌꯦꯡꯗ ꯑꯃꯨꯛ ꯁꯤꯖꯤꯟꯅꯔꯛꯈꯤ꯫ ꯑꯁꯨꯝꯅ ꯀꯨꯝꯖꯥ 2016 ꯐꯥꯎꯕꯗ ꯌꯨ ꯑꯦꯁ
ꯑꯦꯒꯤ ꯁ꯭ꯇꯦꯠ ꯀꯨꯟꯅꯤꯄꯥꯜ ꯑꯃꯁꯨꯡ ꯗꯤꯁꯇ꯭ꯔꯤꯛꯠ ꯑꯣꯐ ꯀꯂꯝꯕꯤꯌꯥꯗ ꯒꯟꯖꯥ ꯄꯥꯝꯕꯤ ꯊꯥꯗꯨꯅ ꯍꯤꯗꯥꯛ
ꯂꯥꯡꯊꯛꯀꯤ ꯁꯤꯖꯤꯟꯅꯕꯗ ꯑꯌꯥꯕ ꯄꯤꯈꯤ꯫ ꯘꯦꯔꯃꯥꯅ ꯗꯁꯨ ꯀꯨꯝꯖꯥ 2008ꯗ ꯂꯨꯞ ꯑꯍꯨꯝꯅ ꯍꯥꯏꯕꯗꯤ

German Medical Association, National Association of Statutory Health

ꯏꯅꯁꯨꯔꯥꯅꯆꯦ Physicians ꯑꯃꯁꯨꯡ ꯙꯔꯨꯒ Commission of ꯇꯍꯦ ꯘꯦꯔꯃꯥꯅ Medical

Association n Health Committee of the German Federal Parliament ki

hearing Amdi synthetic cannabinoid Asi conventional medical treatment

ꯅ ꯔꯤꯂꯤꯐ ꯃꯄꯨꯡ ꯐꯥꯅ ꯐꯪꯗꯕ ꯑꯅꯥꯕꯁꯤꯡꯗ ꯁꯤꯖꯤꯟꯅꯕꯗ ꯃꯔꯝ ꯆꯥꯅ ꯀꯥꯟꯅꯕ ꯐꯪꯏ ꯍꯥꯏꯅ ꯐꯣꯡꯗꯣꯛꯈꯤ꯫

ꯃꯇꯨꯡ ꯇꯥꯔꯛꯄ ꯀꯨꯝꯖꯥ 2011ꯗ ꯑꯍꯥꯟꯕ ꯑꯣꯏꯅ ꯖꯔꯃꯅꯤꯗ ꯒꯟꯖꯥꯗꯒꯤ ꯁꯨꯡꯗꯣꯔꯛꯄ ꯍꯤꯗꯥꯛ
ꯂꯥꯡꯊꯛꯁꯤꯡ ꯁꯤꯖꯤꯟꯅꯕꯗ ꯑꯌꯥꯕ ꯄꯤꯈꯤ꯫ ꯏꯟꯗꯤꯌꯥ ꯑꯃꯁꯨꯡ ꯃꯅꯤꯄꯨꯔꯗꯁꯨ ꯒꯟꯖꯥ ꯑꯁꯤ ꯙꯔꯃꯒ
ꯃꯔꯤ ꯂꯩꯅꯕ ꯊꯧꯔꯝ ꯀꯌꯥꯗ ꯁꯤꯖꯤꯟꯅꯕꯒ ꯂꯣꯏꯅꯅ ꯑꯍꯜ-ꯂꯃꯟꯁꯤꯡꯒꯤ ꯍꯥꯛꯇꯛꯇꯒꯤ ꯁꯥꯒꯣꯟꯅꯗꯨꯅ
ꯂꯥꯛꯈꯤ꯫

gNjadgi fab tetrahydro cannabinol AmsuZ cannabinoids compound kya

ꯃꯩꯈꯨ ꯑꯣꯏꯅ ꯆꯤꯡꯁꯤꯟꯕ ꯅꯠꯇ꯭ꯔꯒ ꯒꯟꯖꯥꯒꯤ ꯃꯅꯥꯁꯤꯡ ꯆꯥꯕꯗꯒꯤ ꯍꯛꯆꯥꯡꯗ ꯆꯪꯏ꯫ ꯃꯁꯤꯒꯤ ꯐꯜ
ꯑꯁꯤ ꯁꯤꯖꯤꯟꯅꯕꯒꯤ ꯃꯈꯥ ꯄꯣꯟꯅ ꯃꯤꯀꯨꯞ ꯅꯠꯇ꯭ꯔꯒ ꯄꯨꯡ ꯈꯔꯒꯤ ꯃꯅꯨꯡꯗ ꯐꯪꯏ꯫ ꯁꯥꯏꯗꯨꯅ ꯌꯣꯠꯂꯒ
ꯁꯤꯖꯤꯟꯅꯕ ꯃꯇꯝꯗ ꯇꯦꯇꯔꯥꯍꯌꯗꯔꯣ ꯆꯥꯅꯅꯤꯕꯤꯅꯣꯂ ꯑꯁꯤ ꯕ꯭ꯂꯗ ꯁꯔꯀ꯭ꯌꯨꯂꯦꯁꯟꯗ ꯌꯧꯗ꯭ꯔꯤꯉꯩꯗ ꯂꯤꯚꯔ
ꯀꯥꯏꯊꯍꯟꯕ ꯃꯔꯝꯅ ꯑꯣꯏꯔꯒ ꯏꯐꯦꯛꯠ ꯑꯁꯤ ꯄꯨꯡꯈꯥꯏꯗꯒꯤꯅ ꯄꯨꯡ ꯑꯅꯤꯒꯤ ꯆꯥꯡꯗ ꯊꯦꯡꯊꯍꯜꯂꯤ
ꯑꯃꯁꯨꯡ ꯆꯥꯛꯈꯑꯎ ꯃꯔꯤꯗꯒꯤ ꯇꯞꯅ ꯆꯨꯞꯁꯤꯟꯕ ꯃꯔꯝꯅ ꯑꯣꯏꯔꯒ ꯏꯐꯦꯛꯠ ꯑꯁꯤ ꯃꯇꯝ ꯁꯥꯡꯊꯅ
ꯂꯩꯍꯜꯂꯤ꯫ ꯃꯩꯈꯨ ꯑꯣꯏꯅ ꯅꯠꯇ꯭ꯔꯒ ꯁꯤꯡꯂꯤꯗꯒꯤ ꯍꯛꯆꯥꯡꯗ ꯆꯪꯍꯟꯕ ꯃꯇꯝꯗ ꯃꯦꯛꯁꯤꯃꯝ ꯕ꯭ꯔꯦꯟ
ꯀꯟꯁꯦꯟꯇ꯭ꯔꯦꯁꯟ ꯍꯥꯏꯕꯗꯤ ꯊꯕꯛ ꯑꯃꯗ ꯄꯨꯛꯅꯤꯡ ꯆꯪꯗꯨꯅ ꯂꯩꯕꯒꯤ ꯃꯇꯝ ꯑꯁꯤ ꯃꯤꯅꯇ 15ꯒꯤ
ꯃꯅꯨꯡꯗ ꯌꯧꯈꯤ꯫ ꯃꯁꯤꯅ ꯃꯔꯝ ꯑꯣꯏꯔꯒ ꯄꯁꯌꯆꯍꯣꯂꯣꯒꯤꯆꯥꯂ ꯑꯃꯁꯨꯡ physiological effect

ꯑꯁꯤ ꯈꯪꯋꯥꯡ ꯋꯥꯡꯈꯠꯂꯤ꯫ Psychological effect ꯑꯁꯤ ꯇꯞꯅ ꯇꯞꯅ ꯍꯟꯊꯔꯛꯄꯗ ꯄꯨꯡ
ꯑꯅꯤꯗꯒꯤ ꯃꯔꯤ ꯐꯥꯎꯕ ꯆꯪꯏ꯫ ꯆꯤꯟꯗꯒꯤ ꯆꯥꯛꯈꯥꯎꯒꯤ ꯂꯝꯕꯤꯗ ꯆꯪꯍꯟꯕ ꯃꯇꯝꯗꯗꯤ ꯏꯐꯦꯛꯠ ꯑꯁꯤ
ꯄꯨꯡ ꯑꯃꯒꯤ ꯃꯇꯨꯡꯒꯨꯝꯕꯗ ꯂꯥꯛꯏ ꯑꯃꯁꯨꯡ ꯆꯥꯛꯈꯥꯎ ꯃꯔꯤꯜꯗꯒꯤ ꯇꯞꯅ ꯆꯨꯞꯁꯤꯟꯕꯅ ꯃꯔꯝ ꯑꯣꯏꯔꯒ
ꯏꯐꯦꯛꯠ ꯑꯁꯤ ꯃꯇꯝ ꯁꯥꯡꯅ ꯍꯥꯏꯕꯗꯤ ꯄꯨꯡ ꯃꯉꯥꯗꯒꯤ ꯇꯔꯨꯛ ꯐꯥꯎꯕ ꯆꯣꯟꯊꯅ cannabinoids

ꯑꯁꯤꯄꯂꯥꯆꯦꯅꯇꯥ ꯐꯥꯎꯖꯤꯟꯗꯨꯅ foetal circulation ꯗ ꯑꯃꯗꯤ ꯑꯉꯥꯡꯒꯤ ꯃꯕꯨꯛ ꯄꯤꯊꯛꯄꯗ
ꯌꯥꯎꯈꯤꯕ ꯉꯝꯃꯤ꯫ Cannabinoids ꯑꯁꯤ ꯂꯤꯄꯤꯗꯁ ꯇꯥ ꯇꯨꯝꯕ ꯉꯝꯕ ꯃꯔꯝꯅꯐꯥꯇꯇꯌ tissue ꯁꯤꯡꯗ
ꯄꯩꯁꯤꯟꯗꯨꯅ ꯂꯩ ꯑꯃꯁꯨꯡ ꯇꯞꯅ ꯇꯞꯅ ꯍꯛꯆꯥꯡꯒꯤ ꯏꯒꯤ ꯏꯔꯝꯗ ꯊꯥꯗꯣꯔꯛꯏ꯫ ꯃꯁꯤꯅ ꯃꯔꯝ ꯑꯣꯏꯔꯒ
ꯍꯛꯆꯥꯡꯗꯒꯤ ꯃꯥꯡꯍꯟꯕꯗ ꯃꯇꯝ ꯆꯪꯏ꯫ ꯍꯟꯖꯤꯟ-ꯍꯟꯖꯤꯟ cannabinoids ꯑꯁꯤ ꯄꯩꯁꯤꯜꯂꯛꯄꯗꯅ
ꯃꯇꯝ ꯈꯔꯒꯤ ꯃꯇꯨꯡꯗ ꯕ꯭ꯔꯦꯟꯗ ꯌꯧꯏ꯫

Cannabinoids ꯑꯁꯤ ꯂꯤꯚꯔꯗ ꯃꯦꯇꯥꯕꯣꯂꯤꯉꯦꯗ ꯇꯧꯏ ꯑꯃꯁꯨꯡ ꯃꯁꯤꯒꯤ ꯃꯥꯖꯣꯔ
ꯃꯦꯇꯥꯕꯣꯂꯤꯇꯦ ꯑꯃ ꯑꯣꯏꯔꯤꯕ11-ꯍꯌꯗꯔꯣꯪꯌ- ꯁ9 ꯇꯦꯇꯔꯥꯍꯌꯗꯔꯣ ꯆꯥꯅꯅꯤꯕꯤꯅꯣꯂ ꯑꯁꯤꯁ-9
ꯇꯦꯇꯔꯥꯍꯌꯗꯔꯣ ꯆꯥꯅꯅꯥꯕꯤꯅꯣꯂ ꯗꯒꯤ ꯍꯦꯟꯅ ꯃꯌꯥꯛ ꯀꯜꯂꯤ ꯑꯃꯁꯨꯡ ꯍꯥꯏꯔꯤꯕ 11-ꯍꯌꯗꯔꯣꯪꯌ
ꯁ-9 ꯇꯦꯇꯔꯥꯍꯌꯗꯔꯣ ꯆꯥꯅꯅꯤꯕꯤꯅꯣꯂ ꯑꯁꯤꯄꯁꯌꯆꯍꯣꯂꯣꯒꯤꯆꯥꯂ ꯑꯃꯁꯨꯡ physiological effect

ꯂꯥꯛꯍꯟꯕꯒꯤ ꯃꯔꯝ ꯑꯣꯏ ꯍꯥꯏꯅ ꯊꯥꯖꯅꯩ꯫ ꯂꯤꯚꯔꯗ cannabinoids ꯃꯦꯇꯥꯕꯣꯂꯤꯉꯦꯗ ꯇꯧꯕ ꯑꯁꯤ
ꯃꯤ ꯑꯃꯒ ꯑꯃꯒ ꯁꯦꯟꯅꯩ꯫ ꯑꯍꯜ ꯑꯣꯏꯔꯕ ꯅꯠꯇ꯭ꯔꯒ ꯂꯤꯚꯔꯒꯤ ꯂꯥꯏꯅ ꯂꯩꯕ ꯃꯤꯑꯣꯏꯁꯤꯡꯗꯗꯤ ꯈꯔ
ꯇꯞꯄ꯫ ꯑꯇꯦꯟꯕ ꯃꯇꯝꯒꯤ ꯏꯐꯦꯛꯇꯁ ꯁꯟꯖꯥꯅ ꯀꯥ ꯍꯦꯟꯅ ꯈꯣꯏꯔꯥꯡꯕ, ꯅꯨꯡꯉꯥꯏꯕ, ꯄꯨꯛꯅꯤꯡ ꯋꯥꯈꯜ
ꯍꯣꯡꯗꯣꯛ-ꯍꯣꯡꯖꯤꯟ ꯇꯧꯕ, ꯑꯔꯥꯝ-ꯈꯧꯔꯥꯡꯕ ꯀꯥ ꯍꯦꯟꯅ ꯄꯣꯛꯍꯜꯂꯤ꯫ ꯀꯥ ꯍꯦꯟꯅ ꯂꯥꯏꯆꯨꯔꯕꯁꯤꯡꯗꯗꯤ
ꯁꯣꯔꯠ ꯇꯔꯝ ꯃꯦꯃꯣꯔꯤ ꯑꯣꯏꯕ, ꯄꯨꯛꯅꯤꯡ ꯆꯪꯕ ꯋꯥꯠꯄ, ꯊꯛꯆꯥꯡꯒꯤ ꯂꯦꯡꯕ-ꯑꯣꯠꯄꯒꯤ ꯃꯊꯧ
ꯁꯣꯟꯊꯍꯟꯕ ꯀꯌꯥꯁꯤꯡ ꯑꯁꯤ ꯊꯦꯡꯅꯩ꯫ ꯃꯔꯛ-ꯃꯇꯛꯇ ꯁꯤꯖꯤꯟꯅꯕ ꯃꯤꯑꯣꯏꯁꯤꯡꯗꯗꯤ ꯄꯨꯛꯅꯤꯡ
ꯋꯥꯈꯜ ꯅꯨꯡꯉꯥꯏꯔꯝꯕꯗꯒꯤ ꯈꯣꯏꯔꯥꯛꯂꯛꯄ ꯑꯃꯗ ꯊꯛꯀꯠꯄ-ꯄꯥꯈꯠꯄ ꯐꯥꯎꯔꯛꯄꯅꯆꯤꯡꯕꯁꯤꯡ
ꯑꯁꯤꯅ ꯃꯔꯝ ꯑꯣꯏꯔꯒ ꯁꯤꯖꯤꯟꯅꯕ ꯇꯣꯛꯄꯒꯤ ꯃꯔꯝ ꯑꯣꯏ꯫ Cardio ꯚꯥꯁꯆꯨꯂꯥꯔ ꯁꯌꯁꯇꯦꯃ
ꯍꯥꯏꯕꯗꯤ ꯍꯥꯔꯠ ꯑꯃꯁꯨꯡ ꯁꯤꯡꯂꯤ-ꯅꯥꯎꯔꯤꯁꯤꯡꯒ ꯃꯔꯤ ꯂꯩꯅꯕꯗꯗꯤ ꯊꯝꯃꯣꯏꯒꯤ ꯃꯤꯍꯨꯜ ꯍꯎꯅꯕꯒꯤ
ꯆꯥꯡ ꯑꯁꯤ ꯆꯥꯗ 20ꯗꯒꯤ 50ꯃꯨꯛ ꯃꯤꯅꯠ ꯑꯃꯒꯤ ꯃꯅꯨꯡꯗ ꯍꯦꯟꯒꯠꯍꯜꯂꯤ꯫ Lake ꯑꯃꯁꯨꯡ ꯃꯍꯥꯛꯀꯤ
ꯀꯥꯡꯕꯨꯁꯤꯡꯅ ꯎꯆꯤꯗ ꯆꯥꯡꯌꯦꯡ ꯇꯧꯕꯗ ꯂꯦꯞꯇꯨꯅ ꯂꯩꯕ ꯇꯝꯗ ꯕ꯭ꯂꯗ ꯄ꯭ꯔꯦꯁꯔ ꯍꯟꯊꯕ ꯑꯝꯁꯨꯡ
ꯐꯝꯗꯨꯅ ꯂꯩꯕꯗ ꯕ꯭ꯂꯗ ꯄ꯭ꯔꯦꯁꯔ ꯍꯟꯊꯗꯕ ꯊꯦꯡꯅꯈꯤ꯫ ꯃꯇꯝ ꯁꯥꯡꯅ ꯒꯟꯖꯥ ꯁꯤꯖꯤꯟꯅꯕꯅ ꯏꯝꯃ꯭ꯌꯨꯟ
ꯁꯤꯁꯇꯝ ꯁꯣꯟꯊꯍꯟꯗꯨꯅ ꯏꯅꯐꯦꯛꯁꯟꯁꯤꯡꯗꯒꯤ ꯂꯥꯏꯅ ꯉꯥꯊꯣꯛꯄ ꯉꯝꯍꯟꯗꯦ꯫ ꯒꯟꯖꯥꯗ ꯌꯥꯎꯕ

cannabinoids ꯅꯠꯇꯕ ꯑꯇꯣꯞꯄ ꯀꯦꯃꯤꯀꯦꯜꯁꯤꯡꯅꯁꯨ ꯊꯕꯣꯃꯕꯤꯗ ꯏꯅꯐꯦꯛꯁꯟꯅꯆꯤꯡꯕ ꯊꯣꯛꯄ
ꯃꯇꯝꯗ ꯉꯥꯛꯊꯣꯛꯄꯒꯤ ꯃꯊꯧ ꯇꯧꯔꯤꯕ alveolar macrophage ꯁꯤꯡꯕꯨ ꯁꯣꯟꯊꯍꯜꯂꯤ, ꯑꯃꯥꯡ-

ꯑꯇꯥ ꯊꯣꯛꯍꯜꯂꯤ꯫

ꯃꯇꯝ ꯁꯥꯡꯅ ꯁꯤꯖꯤꯟꯅꯕꯅ ꯁ꯭ꯋꯔ ꯍꯣꯟꯗꯣꯛ-ꯍꯣꯟꯖꯤꯟꯒꯤ ꯃꯊꯧ ꯇꯧꯔꯤꯕ bronchial ꯇꯨꯕꯦꯁ
ꯁꯤꯡꯕꯨꯆꯍꯔꯣꯅꯤꯆ ꯕꯔꯣꯅꯆꯍꯤꯇꯤꯁ ꯀꯤ ꯂꯥꯏꯑꯣꯡꯁꯤꯡ ꯍꯥꯏꯕꯤ ꯂꯣꯛ ꯈꯨꯕ, ꯂꯣꯛ ꯊꯣꯛꯄ, ꯁ꯭ꯋꯔ ꯍꯣꯟꯕꯗ
ꯍꯨꯏꯁꯦꯜ ꯈꯣꯡꯕꯒꯨꯝꯅ ꯃꯈꯣꯜ ꯊꯣꯛꯄ ꯍꯦꯟꯒꯠꯍꯜꯂꯤ꯫ ꯒꯟꯖꯥ ꯁꯤꯖꯤꯟꯅꯕꯅ ꯅꯍꯥ ꯑꯣꯏꯔꯤꯕꯁꯤꯡꯗ

aerodigestive ꯇꯔꯥꯆꯇ ꯇ ꯀꯦꯟꯁꯔ ꯅꯥꯍꯜꯂꯤ꯫ ꯒꯟꯖꯥ ꯁꯤꯖꯤꯟꯅꯕꯗꯒꯤ ꯍꯛꯆꯥꯡꯗ ꯇꯦꯇꯔꯥꯍꯌꯗꯔꯣꯪꯌ
ꯆꯥꯅꯅꯥꯕꯤꯅꯣꯂ ꯒꯤ ꯆꯥꯡ ꯋꯥꯡꯅ ꯌꯥꯎꯕꯅ ꯃꯔꯝ ꯑꯣꯏꯔꯒ ꯇꯦꯁ꯭ꯇꯣꯁ꯭ꯇꯦꯔꯣꯟ ꯁꯨꯡꯕꯒꯤ ꯑꯃꯁꯨꯡ
ꯊꯥꯗꯣꯔꯛꯄꯒꯤ ꯆꯥꯡ ꯍꯟꯊꯍꯜꯂꯤ, ꯁ꯭ꯄꯔꯝꯒꯤ ꯃꯁꯤꯡ ꯍꯟꯊꯍꯟꯕꯇ ꯅꯠꯇꯅ ꯁ꯭ꯄꯔꯃꯤ ꯂꯦꯡꯕ-

ꯆꯠꯄ ꯑꯃꯁꯨꯡ ꯃꯄꯨꯟꯁꯤ ꯍꯟꯊꯍꯜꯂꯤ꯫ ꯅꯨꯄꯤ ꯑꯣꯏꯁꯤꯡꯗꯅ ꯊꯥꯒꯤ ꯑꯣꯚꯨꯂꯦꯇꯣꯔꯤ ꯁꯥꯏꯀꯜꯗ ꯑꯀꯥꯏꯕ
ꯄꯤ꯫ ꯃꯤꯔꯣꯟꯕꯤ ꯅꯨꯄꯤꯁꯤꯡꯗ ꯑꯣꯏꯔꯒ ꯄꯣꯛꯂꯛꯂꯤꯕ ꯑꯉꯥꯡꯒꯤ ꯑꯔꯨꯃꯕ ꯋꯥꯠꯍꯜꯂꯤ꯫ ꯒꯟꯖꯥ ꯇꯣꯏꯅ
ꯁꯤꯖꯤꯟꯅꯕꯅ ꯃꯦꯃꯣꯔꯤꯗ ꯁꯣꯛꯂꯛꯄ, ꯊꯕꯛ ꯊꯧꯔꯝꯗ ꯄꯨꯛꯅꯤꯡ ꯆꯪꯕ ꯋꯥꯠꯄ, ꯕ꯭ꯔꯦꯟꯗ ꯑꯔꯨꯕ ꯏ-ꯄꯥꯎ
(complex information) kygi mrKt organise Amdi integrate tOb zMde>

Tetrahydroxy ꯆꯥꯅꯅꯥꯕꯤꯅꯣꯂ ꯒꯤ ꯆꯥꯡ ꯋꯥꯡꯕꯅ ꯚꯔꯝ ꯆꯠꯄ, ꯃꯦꯃꯣꯔꯤ ꯂꯣꯁ ꯑꯣꯏꯕ, ꯑꯣꯏꯗꯕꯗ
ꯑꯑꯣꯏꯕ ꯃꯥꯟꯕ, ꯈꯣꯏꯔꯥꯡꯕ, ꯐꯤꯡꯒꯠꯄꯅꯆꯤꯡꯕ ꯇꯧꯏ꯫

ꯃꯊꯛꯇ ꯄꯤꯖꯈ꯭ꯔꯕꯤ health ꯆꯣꯒꯅꯤꯇꯤꯚꯦ ꯑꯃꯁꯨꯡꯄꯁꯌꯆꯍꯣꯁꯤꯁ effect ꯃꯍꯥꯝꯁꯤꯡꯁꯤꯒꯤ
ꯃꯊꯛꯇ ꯒꯟꯖꯥꯗꯒꯤ ꯐꯪꯕ Cannabinoids ꯑꯁꯤ ꯑꯅ ꯂꯥꯌꯦꯡ ꯀꯌꯥꯗ ꯁꯤꯖꯤꯟꯅꯗꯕ ꯅꯠꯇꯦ꯫

ꯈꯨꯗꯝ ꯑꯣꯏꯅꯃꯨꯂꯇꯤꯄꯂꯦ ꯁꯆꯂꯦꯔꯣꯁꯤꯁ, ꯆꯦꯔꯦꯕꯔꯥꯂ ꯄꯥꯂꯁꯌ ꯑꯃꯁꯨꯡꯁꯄꯤꯅꯥꯂ ꯆꯣꯔꯗ ꯇ ꯁꯣꯛꯄ
ꯑꯁꯤꯅꯆꯤꯡꯕꯁꯤꯡ ꯑꯁꯤꯗꯒꯤ ꯑꯣꯏꯍꯜꯂꯛꯄꯃꯨꯁꯆꯂꯦ ꯁꯄꯥꯁꯇꯤꯆꯤꯇꯌ, ataxia ꯑꯃꯁꯨꯡ ꯃꯁꯜ
ꯁꯣꯟꯊꯔꯛꯄꯁꯤꯡ ꯑꯁꯤ Cannabinoids ꯅ ꯂꯥꯌꯦꯡꯕ ꯉꯝꯃꯤ ꯍꯥꯏꯅ ꯔꯤꯄꯣꯔꯠ ꯇꯧꯏ꯫

Cannabinoids ꯑꯁꯤ ꯀꯦꯟꯁꯔ ꯂꯥꯌꯦꯡꯕꯤ ꯊꯥꯕ ꯍꯤꯗꯥꯛꯁꯤꯡꯅ ꯊꯣꯛꯍꯟꯕ ꯑꯣꯅꯤꯡꯕ

faub ꯑꯃꯁꯨꯡ ꯑꯣꯕꯗꯒꯤ ꯉꯥꯛꯊꯣꯛꯄ ꯉꯝꯃꯤ꯫ Cannabinoids ꯅ ꯆꯥꯅꯤꯡ-ꯊꯛꯅꯤꯡꯕ
ꯄꯣꯛꯍꯜꯂꯤ ꯑꯃꯁꯨꯡ knai, ꯑꯦꯟꯇꯤ-ꯚꯥꯏꯔꯦꯜ ꯗ꯭ꯔꯒꯁꯤꯡ, ꯑꯩꯆ ꯑꯥꯏ ꯚꯤ-ꯑꯦꯏꯗꯁꯀ ꯃꯔꯤ ꯂꯩꯅꯕ
ꯑꯅꯥꯕꯁꯤꯡ ꯑꯃꯁꯨꯡ ꯇꯔꯃꯤꯅꯦꯜ ꯀꯦꯟꯁꯔꯅ ꯃꯔꯝ ꯑꯣꯏꯔꯒ ꯃꯇꯝ ꯁꯥꯡꯅ ꯆꯥꯅꯤꯡ-ꯊꯛꯅꯤꯡꯕ
ꯄꯣꯛꯇꯕꯅꯆꯤꯡꯕꯗ ꯁꯤꯖꯤꯟꯅꯕ ꯌꯥꯏ, ꯀꯥꯟꯅꯩ ꯍꯥꯏꯅ beal ꯑꯃꯁꯨꯡ ꯃꯍꯥꯛꯀꯤ ꯀꯥꯡꯕꯨꯅ ꯀꯨꯝꯖꯥ
1995ꯗ ꯔꯤꯄꯣꯔꯠ ꯇꯧꯈꯤ꯫ Merritt ꯑꯃꯁꯨꯡ ꯃꯍꯥꯛꯀꯤ ꯀꯥꯡꯕꯨꯅ ꯐꯣꯡꯗꯣꯛꯈꯤ ꯃꯗꯨꯗꯤ ꯒꯟꯖꯥ
ꯑꯁꯤ ꯃꯩꯈꯨ ꯑꯣꯏꯅ ꯁꯤꯖꯤꯟꯅꯕ ꯅꯠꯇ꯭ꯔꯒ ꯇꯦꯇꯔꯥꯍꯌꯗꯔꯣꯪꯌ ꯆꯥꯅꯅꯥꯕꯤꯅꯣꯂ ꯑꯁꯤ ꯏꯒꯤ ꯈꯣꯡꯂꯝꯗ
ꯆꯪꯍꯟꯈꯤꯕ ꯃꯇꯝꯗ glaucoma ꯅꯥꯕ ꯃꯤꯑꯣꯏꯁꯤꯡꯒꯤ ꯑꯥꯏꯕꯣꯜ ꯃꯅꯨꯡꯗ ꯌꯥꯎꯕ ꯃꯍꯤꯁꯤꯡꯅ ꯄꯤꯕ
ꯄꯔꯦꯁꯁꯨꯔꯦ (intraocular ꯄꯔꯦꯁꯁꯨꯔꯦ) ꯕꯨ ꯍꯟꯊꯍꯟꯕ ꯉꯝꯃꯤ꯫ ꯑꯗꯨꯕꯨ ꯃꯁꯤꯒ ꯏꯔꯣꯏꯅꯅ ꯕ꯭ꯂꯗ
ꯄ꯭ꯔꯦꯁꯔ ꯀ ꯍꯦꯟꯅ ꯅꯦꯝꯊꯈꯤꯕ, ꯍꯥꯔꯠ ꯕꯤꯠꯇ ꯌꯥꯝꯅ ꯊꯨꯕ ꯑꯃꯗꯤ ꯆꯥꯡ ꯅꯥꯏꯗꯕ ꯑꯃꯁꯨꯡ ꯃꯦꯟꯇꯦꯜ
ꯄ꯭ꯔꯣꯁꯦꯁꯇ ꯁꯣꯛꯍꯜꯂꯛꯄꯁꯨ ꯊꯦꯡꯅꯈꯤ꯫ Tashkin ꯑꯃꯁꯨꯡ ꯃꯍꯥꯛꯀꯤ ꯀꯥꯡꯕꯨꯅ asthma ꯅꯥꯕ

volunteer ꯇꯔꯥꯃꯅꯤꯗ ꯃꯈꯜ ꯑꯍꯨꯝ ꯊꯣꯛꯅ ꯆꯥꯡꯌꯦꯡ ꯇꯧꯈꯤ꯫ ꯆꯥꯡꯌꯦꯡ ꯑꯗꯨꯗ ꯇꯦꯇꯔꯥꯍꯌꯗꯔꯣꯪꯌ
ꯆꯥꯅꯅꯥꯕꯤꯅꯣꯂ ꯑꯁꯤ ꯆꯥꯗ ꯑꯅꯤꯒꯤ ꯆꯥꯡꯗ ꯌꯥꯎꯕ ꯒꯟꯖꯥꯕꯨ ꯃꯩꯈꯨ ꯑꯣꯏꯅ ꯁꯤꯖꯤꯟꯅꯍꯟꯕ ꯑꯃ, ꯑꯃꯗꯤ
ꯇꯦꯇꯔꯥꯍꯌꯗꯔꯣꯪꯌ ꯆꯥꯅꯅꯥꯕꯤꯅꯣꯂ ꯕꯨ ꯃꯤꯂꯤꯒ꯭ꯔꯥꯝ 15 ꯆꯤꯟꯕꯥꯟꯊꯣꯡꯗꯒꯤ ꯄꯤꯖꯕ ꯑꯃꯁꯨꯡ ꯁꯇꯥꯅꯗꯥꯔꯗ
ꯕꯔꯣꯅꯆꯍꯣꯗꯤꯂꯥꯇꯣꯔ ꯍꯥꯏꯕꯗꯤ 0.5% isoprenaline ꯁꯤꯖꯤꯟꯅꯗꯨꯅ ꯌꯦꯡꯕꯗ ꯒꯟꯖꯥꯕꯨ ꯃꯩꯈꯨ ꯑꯣꯏꯅ
ꯁꯤꯖꯤꯟꯅꯕꯗ ꯑꯃꯁꯨꯡ ꯇꯦꯇꯔꯥꯍꯌꯗꯔꯣꯪꯌ ꯆꯥꯅꯅꯥꯕꯤꯅꯣꯂ ꯕꯨ ꯆꯤꯟꯕꯥꯟꯊꯣꯡꯗ ꯁꯤꯖꯤꯟꯅꯕꯅ ꯌꯥꯝꯅ
ꯃꯄꯨꯡ ꯐꯥꯅ ꯌꯥꯝꯗ꯭ꯔꯕꯗ ꯄꯨꯡ ꯑꯅꯤ bronchodilation ꯇꯧꯍꯟꯕ ꯉꯝꯈꯤ꯫ ꯑꯗꯨꯕꯨ ꯒꯟꯖꯥꯗ ꯑꯇꯣꯞꯄ
ꯀꯦꯃꯤꯀꯦꯜ ꯀꯌꯥꯃꯔꯨꯝ ꯌꯥꯎꯕꯅ ꯑꯅꯥ ꯂꯥꯌꯦꯡꯗ ꯍꯦꯛꯇꯃꯛ ꯆꯟꯅꯕ ꯍꯥꯏꯕꯗꯨꯗꯤ ꯑꯣꯏꯗꯦ꯫

ꯂꯥꯏꯑꯣꯡ ꯀꯌꯥꯗ ꯍꯟꯊꯍꯟꯕ, ꯍꯝꯊꯕ ꯑꯃꯁꯨꯡ ꯐꯍꯟꯕ ꯉꯝꯃꯤ ꯍꯥꯏꯔꯕꯁꯨ ꯀ꯭ꯂꯤꯅꯤꯀꯦꯜ
ꯄ꯭ꯔꯦꯛꯇꯤꯁꯇ ꯁꯤꯖꯤꯟꯅꯗ꯭ꯔꯤꯉꯩꯗ ꯑꯍꯦꯟꯕ ꯏꯟꯐꯣꯔꯃꯦꯁꯟ ꯀꯌꯥ ꯀꯟꯇ꯭ꯔꯣꯜ ꯁ꯭ꯇꯗꯤꯖ ꯇꯧꯗꯨꯅ
ꯈꯪꯗꯣꯛꯄ ꯊꯤꯗꯣꯛꯄ ꯃꯊꯧ ꯇꯥꯔꯤ꯫ ꯂꯥꯌꯦꯡ ꯄꯊꯥꯞꯇ ꯁꯤꯖꯤꯟꯅꯕꯒꯤ ꯊꯤꯔꯤꯕ-ꯐꯪꯂꯤꯕ ꯑꯗꯨꯒ
ꯂꯣꯏꯅꯔꯛꯀꯗꯕ ꯅꯠꯇ꯭ꯔꯒ ꯂꯣꯏꯅꯔꯛꯄ ꯌꯥꯕ ꯁꯥꯏꯗ ꯏꯐꯦꯛꯠꯁꯤꯡ ꯑꯁꯤꯗꯒꯤ ꯈꯥꯏꯗꯣꯛꯅꯍꯟꯅꯕ
ꯊꯣꯑꯣꯡ ꯁꯦꯝꯒꯠꯄꯅ ꯃꯇꯨꯡ ꯇꯥꯔꯛꯄ ꯔꯤꯁꯥꯔꯁꯤꯡꯗ ꯇꯧꯒꯗꯕ ꯑꯆꯣꯕ ꯃꯐꯝ ꯑꯝꯗꯤ ꯑꯣꯏꯔꯤ꯫

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ꯑꯜꯖꯤ (algae) ꯍꯥꯏꯕꯁꯤ ꯑꯆꯝꯕ ꯑꯃꯁꯨꯡ ꯊꯨꯝꯍꯤ ꯆꯦꯟꯕ ꯏꯁꯤꯡꯗ ꯍꯧꯕ, ꯃꯈꯜ-ꯃꯈꯥ ꯀꯌꯥꯒꯤ
ꯄꯥꯝꯕꯤꯁꯤꯡ ꯑꯣꯏꯅ ꯂꯧꯕ ꯌꯥꯏ꯫ ꯃꯅꯤꯄꯨꯔꯒꯤ ꯏꯁꯤꯡꯗꯁꯨ ꯑꯁꯤꯒꯨꯃꯕ ꯑꯜꯖꯤꯁꯤꯡ ꯃꯔꯥꯡ ꯀꯥꯏꯅ
ꯍꯧꯏ꯫ ꯊꯨꯝꯍꯤ ꯆꯦꯟꯕ ꯏꯁꯤꯡꯗ ꯐꯪꯕ, ꯆꯤꯟꯖꯥꯛ ꯑꯣꯟ ꯆꯥꯅꯕ ‘ꯁꯤꯋꯤꯗ’ ꯁꯤꯡꯈꯛꯇ ꯅꯠꯇꯅ, ꯃꯔꯨ
ꯑꯣꯏꯟ ꯃꯅꯤꯄꯨꯔꯒꯤ ꯆꯞꯄꯤ ꯇꯨꯔꯦꯜꯁ ꯐꯪꯂꯤꯕ ‘ꯅꯨꯡꯁꯝ’ ꯍꯥꯏꯅ ꯃꯍꯥꯎ ꯂꯩꯅ ꯆꯥꯅꯔꯤꯕ ꯑꯁꯤꯁꯨ ꯑꯃꯅꯤ꯫

‘ꯃꯦꯗꯤꯁꯅꯦꯜꯄ꯭ꯂꯥꯟꯠꯁ.ꯀꯣ.ꯏꯟ’ ꯗ ꯄꯟꯕꯒꯤ ꯃꯇꯨꯡꯏꯟꯅ ꯅꯨꯡꯁꯝꯗ ꯄ꯭ꯔꯣꯇꯤꯟ, ꯂꯤꯄꯤꯗ ꯑꯃꯁꯨꯡ
ꯃꯤꯅꯔꯦꯜꯁꯤꯡꯒꯤ ꯆꯥꯡ ꯋꯥꯡꯅ ꯌꯥꯎꯏ꯫ ꯑꯜꯖꯤ ꯍꯥꯏꯔꯤꯕ ꯄꯥꯝꯕꯤ ꯀꯥꯡꯂꯨꯞ ꯑꯁꯤ ꯐꯣꯇꯣꯁꯤꯟꯊꯦꯁꯤꯁꯀꯤ
ꯃꯇꯦꯡꯅ ꯃꯁꯥꯅ ꯃꯁꯥꯒꯤ ꯃꯆꯤꯟꯖꯥꯛ ꯁꯨꯡꯖꯕ ꯉꯝꯃꯤ꯫ ꯃꯔꯝ ꯑꯁꯤꯅ ꯆꯥꯕ ꯌꯥꯕ ꯅꯠꯇ꯭ꯔꯒ ꯌꯥꯗꯕ
ꯑꯜꯖꯤꯁꯤꯡꯕꯨ ꯂꯧꯎ-ꯁꯤꯡꯎꯒꯤ ꯊꯕꯛꯇ ꯀꯥꯟꯅꯕ ꯃꯑꯣꯡꯗ ꯁꯤꯖꯤꯟꯅꯗꯨꯅ ꯑꯍꯦꯟꯕ ꯄꯣꯠꯊꯣꯛꯁꯤꯡ
ꯄꯨꯊꯣꯛꯅꯕꯒꯤ ꯊꯧꯔꯥꯡ ꯄꯥꯏꯈꯠꯅꯔꯛꯂꯤ꯫ (ꯃꯅꯤꯄꯨꯔꯒꯤ ꯅꯨꯡꯁꯝ ꯑꯁꯤꯗꯁꯨ ꯑꯁꯤꯒꯨꯝꯕ ꯃꯤꯠꯌꯦꯡ ꯆꯪꯕꯒꯤ
ꯃꯊꯧ ꯇꯥꯔꯛꯂꯤ꯫)
ꯍꯦꯟꯒꯠꯂꯛꯂꯤꯕ ꯃꯥꯂꯦꯝꯒꯤ ꯃꯤꯁꯤꯡ ꯑꯁꯤꯒꯤ ꯆꯥꯅꯕꯒꯤꯗꯃꯛ ꯄꯣꯠꯊꯣꯛ ꯄꯨꯊꯣꯛꯅꯕ ꯍꯣꯠꯅꯕꯗ
ꯀꯦꯃꯤꯀꯦꯜ ꯀꯌꯥꯃꯨꯛ ꯁꯤꯖꯤꯟꯅꯔꯤ꯫ ꯃꯈꯣꯏꯅ ꯅꯥꯀꯣꯏꯅꯅ ꯑꯩꯈꯣꯏꯒꯤ ꯍꯛꯁꯦꯜꯗ ꯑꯀꯥꯏꯕ ꯄꯤꯔꯛꯏ꯫

ꯑꯗꯨꯅ ꯁꯁꯇꯦꯅꯦꯕꯜ ꯑꯦꯒ꯭ꯔꯤꯀꯜꯆꯔꯣꯝꯗ ꯃꯥꯏ ꯑꯣꯟꯁꯤꯟꯅꯔꯛꯂꯤ꯫ ꯑꯁꯨꯝꯅ ꯑꯣꯁꯇ꯭ꯔꯦꯂꯤꯌꯥꯒꯤ

‘ꯐ꯭ꯂꯤꯟꯗꯔꯁ ꯌꯨꯅꯤꯚꯔꯁꯤꯇꯤ’ꯁ ꯁꯦꯟꯇꯔ ꯐꯣꯔ ꯃꯦꯔꯤꯟ ꯕꯥꯏꯑꯣꯄ꯭ꯔꯣꯗꯛꯠꯁ ꯗꯤꯚꯂꯞꯃꯦꯟꯠ’ (ꯁꯤ
ꯑꯦꯝ ꯕꯤ ꯗꯤ)ꯒꯤ ꯊꯤꯖꯤꯟ-ꯂꯨꯞ ꯑꯃꯅ ꯃꯥꯏꯀ꯭ꯔꯣꯑꯜꯖꯤꯁꯤꯡꯗꯒꯤ ꯃꯤꯑꯣꯏꯕꯒꯤ ꯈ꯭ꯋꯥꯏꯗꯒꯤ ꯃꯔꯨ ꯑꯣꯏꯔꯒ
ꯆꯤꯟꯖꯥꯛꯀꯤ ꯃꯆꯜ ꯑꯣꯏꯔꯤꯕꯤ, ꯄ꯭ꯔꯣꯇꯤꯟ ꯄꯨꯊꯣꯛꯄꯄꯒꯤ ꯆꯥꯡꯌꯦꯡꯁꯤꯡ ꯃꯥꯏ ꯄꯥꯛꯅ ꯄꯥꯡꯊꯣꯛꯈ꯭ꯔꯦ꯫

‘ꯃꯦꯔꯤꯟ ꯕꯥꯏꯑꯣꯄ꯭ꯔꯣꯗꯛꯇꯁ ꯀꯣꯑꯣꯄꯔꯦꯇꯤꯚ ꯔꯤꯁꯔꯁ ꯁꯦꯟꯇꯔ’ (ꯑꯦꯝ ꯕꯤ-ꯁꯤ ꯑꯥꯔ ꯁꯤ)ꯅ ꯃꯃꯥꯡꯗ,
ꯑꯍꯥꯟꯕ ꯖꯦꯅꯔꯦꯁꯟ (ꯉꯥ ꯌꯣꯛꯄꯒ ꯃꯔꯤ ꯂꯩꯅꯕ) ꯑꯃꯁꯨꯡ ꯑꯅꯤꯁꯨꯕ ꯖꯦꯅꯔꯦꯁꯟ (AekWbkLcrg

ꯃꯔꯤ ꯂꯩꯅꯕ) ꯄꯥꯏꯈꯠꯈ꯭ꯔꯕ ꯃꯔꯨꯡꯗ, ꯑꯍꯨꯝꯁꯨꯕ ꯖꯦꯅꯔꯦꯁꯟ ꯑꯁꯤꯗꯗꯤ ꯇꯣꯞ-ꯇꯣꯞꯄꯥ ꯃꯑꯣꯡ ꯑꯃꯗ,
ꯑꯣꯁꯇ꯭ꯔꯦꯂꯤꯌꯥꯒꯤ ꯂꯩꯖꯔꯤꯕ ꯃꯦꯔꯤꯟ ꯕꯥꯏꯑꯣꯄ꯭ꯔꯣꯗꯛꯠꯁꯤꯡꯅ ꯃꯥꯂꯦꯝꯒꯤ ꯏꯟꯗꯁꯇ꯭ꯔꯤꯗ ꯃꯥꯡꯖꯤꯜ
ꯊꯥꯅ ꯁꯔꯨꯛ ꯌꯥꯕ ꯍꯥꯏꯕꯁꯤꯗꯤ ꯄꯥꯟꯗꯝ
ꯊꯝꯂꯤ꯫

ꯐ꯭ꯂꯤꯟꯗꯔꯁ ꯌꯨꯅꯤꯚꯔꯁꯤꯇꯤꯒꯤ
ꯄ꯭ꯔꯣꯐꯦꯁꯔ ꯋꯩ ꯓꯥꯡꯅ ꯐꯣꯡꯗꯣꯛꯄꯒꯤ
ꯃꯇꯨꯡꯏꯟꯅ, mSoigi ꯊꯤꯖꯤꯟꯕꯒꯤ
ꯊꯕꯛ ꯑꯁꯤꯅ ꯃꯥꯏꯀ꯭ꯔꯣꯑꯜꯖꯤꯁꯤꯡ
ꯊꯥꯕ ꯑꯃꯁꯨꯡ ꯁꯔꯀꯨꯂꯥꯔ ꯑꯦꯗꯚꯥꯟꯁꯗ
ꯕꯥꯏꯑꯣꯃꯦꯅꯨꯐꯦꯛꯆꯔꯤꯡꯗꯒꯤ ꯍꯧꯔꯒ
ꯃꯆꯤ ꯑꯣꯏꯕ ꯆꯤꯟꯖꯥꯛ ꯄꯨꯊꯣꯛꯀꯅꯤ꯫

ꯃꯥꯏꯀ꯭ꯔꯣꯑꯜꯖꯤꯒꯤ ꯅ꯭ꯌꯨꯇ꯭ꯔꯤꯁꯅꯜ
ꯄ꯭ꯔꯣꯐꯥꯏꯜꯁꯤꯡ ꯄꯨꯊꯣꯛꯀꯅꯤ꯫ ꯑꯗꯨꯒ
ꯃꯁꯤꯗꯒꯤ ꯑꯃꯨꯛ ꯃꯈꯥ ꯇꯥꯅ ꯁꯦꯝꯗꯣꯛ-

ꯁꯥꯗꯣꯛꯂꯒ ꯊꯛꯆꯥꯡꯗ ꯀꯥꯟꯅꯔꯕ
ꯁꯦꯜ ꯄꯦꯠꯇꯤꯁꯤꯡ, ꯆꯤꯞꯁꯤꯡ,
ꯄꯣꯁ꯭ꯇꯤꯁꯤꯡ, ꯖꯥꯝꯁꯤꯡ ꯌꯥꯎꯅ ꯆꯥꯕ ꯌꯥꯔꯕ
ꯆꯤꯟꯖꯥꯛꯁꯤꯡ ꯁꯨꯡꯕ ꯌꯥꯏ꯫ ꯒ꯭ꯔꯤ ꯄꯥꯁ꯭ꯇꯥ,
ꯗ꯭ꯔꯤꯛꯁ ꯑꯦꯟꯗ ꯕꯤꯚꯔꯦꯖꯁꯤꯡꯒꯨꯝꯅ
ꯆꯤꯟꯖꯥꯛꯁꯤꯡ ꯄꯨꯊꯣꯛꯄꯗ ꯁꯤꯖꯤꯟꯅꯔꯕ, ꯍꯧꯖꯤꯛ ꯀꯩꯊꯦꯜꯗ ꯐꯪꯂꯕ, ꯑꯆꯝꯕ ꯏꯁꯤꯡꯒꯤ ꯄ꯭ꯔꯣꯇꯤꯟ ꯌꯥꯝꯅ
ꯌꯥꯎꯕ ꯀ꯭ꯂꯣꯔꯦꯂ ꯑꯃꯁꯨꯡ ꯁ꯭ꯄꯤꯔꯨꯂꯤꯅꯥ ꯃꯈꯜꯁꯤꯡ ꯄꯨꯊꯣꯛꯄ ꯍꯧꯔꯦ ꯍꯥꯏꯔꯤ꯫

ꯁꯃꯨꯗ꯭ꯔꯒꯤ ꯏꯁꯤꯡꯗ ꯍꯧꯔꯤꯕ ꯑꯜꯖꯤꯁꯤꯡꯗꯒꯤ ꯕꯥꯏꯑꯣꯔꯤꯑꯦꯛꯇꯔꯁꯤꯡ ꯁꯥꯗꯨꯅ ꯆꯤꯟꯖꯥꯛ
ꯄꯨꯊꯣꯛꯄ ꯑꯁꯤꯅ ꯍꯦꯟꯅ ꯈꯨꯗꯣꯡꯆꯥꯔꯤꯕꯗꯤ: ꯃꯍꯩ-ꯃꯔꯣꯡ ꯊꯥꯅꯕꯒꯤ ꯂꯧꯐꯝ ꯑꯃꯁꯨꯡ ꯏꯁꯤꯡꯒꯤ
ꯑꯋꯥꯕꯗꯨ ꯂꯩꯍꯟꯗ꯭ꯔꯦ꯫ ꯃꯈꯣꯏꯗ ꯌꯥꯎꯔꯤꯕ ꯑꯁꯥꯡꯕ ꯆꯦꯏꯟꯒꯤ ꯑꯣꯃꯦꯒꯥ ꯐꯦꯠꯇꯤ ꯑꯦꯁꯤꯗꯁꯤꯡꯁꯤ
ꯑꯉꯥꯡꯁꯤꯡꯅ ꯆꯥꯎꯈꯠꯂꯛꯄ ꯑꯃꯁꯨꯡ ꯃꯈꯣꯏꯒꯤ ꯊꯣꯞ ꯁꯦꯝꯒꯠꯂꯛꯄ ꯑꯃꯁꯨꯡ ꯊꯝꯃꯣꯏꯒꯤ ꯍꯛꯁꯦꯜꯗ
ꯌꯥꯝꯅ ꯀꯥꯟꯅꯔꯤꯕ ꯃꯆꯜꯁꯤꯡꯅꯤ꯫ ꯑꯁꯤꯒꯨꯝꯕ ꯕꯥꯏꯑꯣꯔꯤꯑꯦꯛꯇꯔꯁꯤꯡꯅ ꯒ꯭ꯔꯤꯟꯍꯥꯎꯁ ꯑꯃꯁꯨꯡ
ꯃꯈꯣꯏꯒꯤ ꯊꯣꯞ ꯁꯦꯝꯒꯠꯂꯛꯄ ꯑꯃꯁꯨꯡ ꯊꯝꯃꯣꯏꯒꯤ ꯍꯛꯁꯦꯜꯗ ꯌꯥꯝꯅ ꯀꯥꯟꯅꯔꯤꯕ ꯃꯆꯜꯁꯤꯡꯅꯤ꯫

ꯑꯁꯤꯒꯨꯝꯕ ꯕꯥꯏꯑꯣꯔꯤꯑꯦꯛꯇꯔꯁꯤꯡꯅ ꯒ꯭ꯔꯤꯟꯍꯥꯎꯁ ꯒ꯭ꯌꯥꯁ ꯊꯥꯗꯣꯔꯛꯄꯕꯨ ꯍꯟꯊꯍꯟꯗꯨꯅ ꯁꯥꯕꯒꯤ ꯆꯥꯡ
ꯍꯟꯊꯍꯟꯕꯗꯁꯨ ꯃꯇꯦꯡ ꯄꯥꯡꯒꯅꯤ ꯍꯥꯏꯔꯤ꯫ ꯕꯥꯏꯑꯣꯔꯤꯑꯦꯛꯇꯔꯁꯤꯡ ꯌꯨꯅꯤꯠ (ꯐꯨꯠ 3

× ꯐꯨꯠ 3× ꯐꯨꯠ 7)
ꯑꯃꯅ, ꯄꯥꯝꯕꯤꯁꯤꯡꯒꯤ ꯆꯞ ꯃꯥꯟꯅꯕ ꯐꯨꯠꯄ꯭ꯔꯤꯟꯠꯇꯒꯤ ꯀꯥꯔꯕꯣꯟ ꯗꯥꯏꯑꯣꯛꯁꯥꯏꯗ ꯁꯔꯨꯛ 400 ꯍꯦꯟꯅ
ꯆꯨꯞꯁꯤꯅꯕꯤ ꯉꯝꯃꯤ ꯍꯥꯏꯅ ꯊꯤꯖꯤꯟ-ꯂꯨꯞ ꯑꯁꯤꯅ ꯐꯣꯡꯗꯣꯛꯂꯤ꯫

ꯅꯨꯃꯤꯠꯀꯤ ꯃꯉꯥꯜ ꯁꯤꯖꯤꯟꯅꯔꯒ, ꯄꯥꯝꯕꯤꯁꯤꯡꯒꯨꯝꯅ, ꯃꯥꯏꯀ꯭ꯔꯣꯑꯜꯖꯤ ꯃꯈꯜ ꯈꯔꯅ ꯑꯣꯛꯁꯤꯖꯦꯟ ꯁꯨꯡꯏ
ꯑꯃꯁꯨꯡ ꯀꯥꯔꯕꯣꯟ ꯗꯥꯏꯑꯣꯛꯁꯥꯏꯗ ꯑꯣꯔꯒꯥꯅꯤꯛ ꯗꯥꯔꯕꯣꯟ (ꯄ꯭ꯔꯣꯒꯤꯟ, ꯀꯥꯔꯕꯣꯍꯥꯏꯗ꯭ꯔꯦꯠ, ꯄꯤꯒꯃꯦꯟꯠ,
ꯐꯦꯠ ꯑꯃꯁꯨꯡ ꯐꯥꯏꯕꯔꯁꯤꯡ) ꯗ ꯑꯣꯟꯊꯣꯛꯏ ꯑꯗꯨꯕꯨ ꯃꯁꯤꯒꯤꯗꯃꯛ ꯃꯃꯜ ꯌꯥꯝꯂꯕ ꯂꯧꯐꯝꯒꯤ ꯗꯔꯀꯥꯔ
ꯑꯣꯏꯗꯦ꯫ ꯃꯔꯝ ꯑꯁꯤꯅ ꯃꯈꯣꯏꯁꯨꯕꯨ ‘ꯔꯦꯏꯟꯐꯣꯔꯦꯁꯇꯦꯗ ꯑꯣꯐ ꯗꯤ ꯑꯣꯁꯤꯟꯁ’ ꯍꯥꯏꯅ ꯍꯦꯛ ꯍꯦꯛ ꯈꯪꯅꯩ
ꯍꯥꯏꯅ ꯐ꯭ꯂꯤꯟꯗꯔꯁ ꯌꯨꯅꯤꯚꯔꯁꯤꯇꯤꯒꯤ ꯕꯥꯏꯑꯣꯇꯦꯛꯅꯣꯂꯣꯖꯤꯒꯤ ꯑꯦꯁꯣꯁꯤꯑꯦꯠ ꯄ꯭ꯔꯣꯐꯦꯁꯔ ꯀꯤꯔꯁ꯭ꯇꯟ
ꯍꯩꯃꯥꯟꯅ ꯐꯣꯡꯗꯣꯛꯂꯤ꯫ ꯑꯁꯨꯝꯅ ꯃꯥꯏꯀ꯭ꯔꯣꯑꯜꯖꯤꯕꯨ ꯊꯥꯗꯨꯅ ꯏꯀꯣ-ꯐ꯭ꯔꯦꯟꯗꯂꯤ ꯑꯣꯏꯕ ꯆꯤꯟꯖꯥꯛꯁꯤꯡ
ꯄꯨꯊꯣꯛꯄꯁꯤ ꯃꯥꯂꯦꯝꯒꯤ ꯀꯩꯊꯦꯜꯗ ꯑꯆꯧꯕ ꯄꯣꯠꯊꯣꯛ ꯑꯃ ꯑꯣꯏꯔꯒꯅꯤ ꯍꯥꯏꯅ ꯃꯍꯥꯛꯅ ꯃꯈꯥ ꯇꯥꯅ
ꯐꯣꯡꯗꯣꯛꯂꯤ꯫

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ꯁꯤꯡꯒꯜ-ꯁꯦꯜ ꯃꯦꯔꯤꯟ ꯑꯜꯖꯤꯗꯒꯤ ꯄ꯭ꯔꯣꯇꯤꯟ ‘ꯁꯨꯄꯔꯐꯨꯗ’ ꯁꯨꯡꯕ
(ꯆꯛꯄꯤ ꯇꯨꯔꯦꯜꯒꯤ ꯅꯨꯡꯁꯝꯗꯁꯨ ꯆꯥꯡꯌꯦꯡ ꯇꯧꯕ ꯌꯥꯔꯦ)
ꯁꯥꯏꯟꯁꯀꯤ ꯈꯣꯡꯆꯠ
ꯀꯨꯟꯖꯣ ꯅꯥꯎꯔꯦꯝ
ꯒꯟꯖꯥꯒꯤ ꯀꯥꯟꯅꯕ ꯑꯃꯁꯨꯡ ꯑꯃꯥꯡꯕ
ꯃꯥꯏꯀ꯭ꯔꯣꯑꯜꯖꯤ ꯕꯥꯏꯑꯣꯔꯤꯑꯦꯛꯇꯔ ꯑꯃꯒꯤ ꯁꯛꯇꯝ
ꯄ꯭ꯔꯣꯐꯦꯁꯔ ꯋꯩ ꯓꯥꯡꯅ ꯕꯥꯏꯑꯣꯔꯤꯑꯦꯛꯇꯔꯗꯒꯤ ꯄꯨꯊꯣꯔꯛꯄ ꯄꯣꯠꯊꯣꯛ ꯑꯃ ꯎꯠꯄ
ꯗꯣ. ꯂꯩꯃꯄꯣꯛꯄꯝ ꯇꯤꯀꯦꯟꯗ꯭ꯔ