All 7 of the following antimicrobials have broad spectrum action against at least one group of microbe (bacteria, virus, parasite or fungi). There are resistant strains of microbes in these categories that may not be responsive. In general, these herbs are effective against the categories of microbes and conditions listed; the lists are not comprehensive.

Samento, Quina, Cumanda and Banderol are effective against Borrelia so patients may experience a Herxheimer reaction if they start at full dose. In most cases patients will not experience a Herxheimer reaction if they start at full dose of Takuna, Noni or Barberry.

**SAMENTO**
*Broad spectrum antibacterial*

**MICROBES:** Babesia (some), Bartonella, Borrelia, Chlamydia, E. Coli (most) Gram-negative bacteria (some), Mycoplasma, Rickettsia (including Coxiella and Erlichia), Salmonella, Shigella, Streptococcus (most)

**CONDITIONS:** Acute pharyngitis, Bronchitis, Diabetes mellitus (especially type 2), Cancer (some), Food poisoning, Helicobacter Pylori infection, Hypertension, Intestinal diseases, Lyme disease, Lupus, Parkinson’s disease, Rheumatism, Sinusitis (some), Urinary tract infections

**BANDEROL**
*Broad spectrum antibacterial, antifungal, antiparasitic & antiviral*

**MICROBES:** Anaerobic and Aerobic rods and cocci (many), Aspergillus (some), Babesia, Bartonella, Borrelia, Candida (some), Chlamydia, Cytomegalovirus, Encephalitis viruses (some), Hepatitis viruses (some), Human Papilloma Viruses (some), Mucor (some), Mycoplasma, Mycosis fungoides, Protozoal parasites (many), Rickettsia (including Coxiella and Erlichia),

**CONDITIONS:** Acute and Chronic prostatitis, Acute and Chronic respiratory tract infections (many), Acute and Chronic sinusitis, Asthma, Atherosclerotic disease, Cellulitis, Food poisoning, Lyme disease, Parkinson’s disease, Psoriasis, Thrush, Urinary tract infections (many), Vaginal infections

**QUINA**
*Broad spectrum antibacterial & antiprotozoal*

**MICROBES:** Anaerobic and Aerobic bacteria (some), Babesia, Bartonella, Borrelia, Chlamydia, Entamoeba, Giardia, Mycoplasma, Plasmodium sp., Protozoal parasites (intracellular and extracellular), Rickettsia (including Coxiella and Erlichia), Staphylococcus (some), Streptococcus (some)

**CONDITIONS:** Lyme disease, Malaria, Protozoal dysentery, Respiratory tract infections (some), Urinary tract infections (some)
CUMANDA
broad spectrum antibacterial, antifungal, antiparasitic & antiviral

**MICROBES:** Anaerobic and Aerobic rods and cocci (many), Aspergillus sp., Babesia, Bartonella, Borrelia, Candida, Chlamydia, Cytomegalovirus, Encephalitis virus, Hepatitis virus, Mycoplasma, Mycosis fungoides, Mucor sp., Protozoal parasites (many), Rickettsia (including Coxiella and Erlichia), Worms (some)

**CONDITIONS:** Acute and Chronic prostatitis, Acute and Chronic respiratory tract infections (many), Acute and Chronic sinusitis, Asthma, Atherosclerotic disease, Autism spectrum disorder, Cellulitis, Food poisoning, Lyme disease, Parkinson’s disease, Psoriasis, Thrush, Urinary tract infections (many), Vaginal infections (many)

NONI
broad spectrum antiviral and pain reliever

**MICROBES:** Adenovirus, Cytomegalovirus, Encephalitis viruses (some), Hepatitis viruses (some), Human Papilloma Viruses (some), Influenza, Meningitis viruses (some), Rhinovirus

**CONDITIONS:** Acute pharyngitis, Cancer (some), Colds, Enteritis, Food poisoning, Flu, Gastritis, Pain syndromes, Sinusitis (some)

BARBERRY
broad spectrum antibacterial & antifungal

**MICROBES:** Most bacteria and most fungi including Anaerobic and Aerobic rods and cocci (most), Aspergillus (some), Candida (some), Chlamydia pneumoniae, Mucor (some), Mycoplasma, Mycosis fungoides

**CONDITIONS:** Acute and chronic sinusitis, Asthma, Atherosclerotic disease, Bronchitis, Bronchospastic disease, Prostatitis, Psoriasis, Urinary tract infections

TAKUNA
broad spectrum antiviral

**MICROBES:** Adenovirus, Cytomegalovirus, Encephalitis virus, Hepatitis virus, Human Papilloma Viruses (most), Influenza, Meningitis, Rhinovirus

**CONDITIONS:** Acute pharyngitis, Acute and Chronic Viral Encephalitis and Meningitis, Cancer (some), Chronic Viral Hepatitis (sexually transmitted), Chronic Epstein-Barr, Colds, Gastritis, Enteritis, Flu, Herpes viruses (most), Herpes Zoster, Sinusitis (some)