contaminated not_contaminated urate biosynthesis/inosine 5'-phosphate degradation UMP biosynthesis UDP-N-acetyl-D-glucosamine biosynthesis I TCA cycle VIII (helicobacter) TCA cycle VII (acetate-producers) TCA cycle I (prokaryotic) superpathway of UDP-glucose-derived O-antigen building blocks biosynthesis superpathway of tetrahydrofolate biosynthesis superpathway of sulfate assimilation and cysteine biosynthesis superpathway of pyrimidine ribonucleotides de novo biosynthesis superpathway of pyrimidine nucleobases salvage superpathway of pyrimidine deoxyribonucleotides de novo biosynthesis superpathway of phospholipid biosynthesis I (bacteria) superpathway of glyoxylate bypass and TCA superpathway of fatty acid biosynthesis initiation (E. coli) superpathway of branched amino acid biosynthesis superpathway of adenosine nucleotides de novo biosynthesis II superpathway of adenosine nucleotides de novo biosynthesis I sulfate reduction I (assimilatory) stearate biosynthesis II (bacteria and plants) pyruvate fermentation to isobutanol (engineered) palmitoleate biosynthesis I (from (5Z)-dodec-5-enoate) oleatè biosynthesis IV (anaerobic) octane oxidation N10-formyl-tetrahydrofolate biosynthesis L-valine biosynthesis L-ornithine biosynthesis L-methionine biosynthesis III L-isoleucine biosynthesis IV L-isoleucine biosynthesis III L-isoleucine biosynthesis II L-isoleucine biosynthesis I (from threonine)
L-arginine biosynthesis III (via N-acetyl-L-citrulline)
L-arginine biosynthesis II (acetyl cycle) quanosine nucleotides degradation III quanosine deoxyribonucleotides de novo biosynthesis II gondoate biosynthesis (ánaerobic) fatty acid salvagé fatty acid elongation -- saturated fatty acid β-oxidation I CMP-3-deoxy-D-manno-octulosonate biosynthesis I cis-vaccenate biosynthesis CDP-diacylglycerol biosynthesis II CDP-diacylglycerol biosynthesis I biotin biosynthesis I aerobic respiration I (cytochrome c) adenosine nucleotides degradation II adenosine deoxyribonucleotides de novo biosynthesis II 8-amino-7-oxononanoate biosynthesis I 6-hydroxymethyl-dihydropterin diphosphate biosynthesis III (Chlamydia) (5Z)-dodec-5-enoate biosynthesis