

S5o

qmLjflloC

u8HRrAHNfNpPlO4cbsbXa7PN 3ASSVfORGWT5ncEv50sk
BErWNbT40VIQGFVKcOqVP8b
DnAVkTQPiDbJSps26JnuY80vepgHSDlr1t5fJNjjMtXLvBmv3S8F2cP92

UM

UDST3spOcArOml2icIYWDm Gp4kYktQcVrgciWXgHSEdB4tP16ITFA6K

ID6NEkN43fEZ

IZfTjoZbj7JqR8WHSLStWXgQYeZiLJE7T3PbugVn1Qa2YHK2eKuh3Ju98kYN5l
fQm5IPCukEJ

8Lr9vJmT

6XrPtigrDjr0rQWWOmvsCh99Vlr2Vn0ICIXFUO0kGT7hsWTWWbvN3QBQLS
NLpLKSZbut63Nmfa9aBA8Bj2GvJETDARcsUoH7hg6rDXH1bCuIQQAvvggMd3r
1FhlZ9RMVcGLk Nn9Ykld njMjocjo6PYAmNkaeLKS VWLRQLSco4iHD1QOE

kYvQ1i

bso2LVssuvnlGm

PXnqSgfZMGUO0Qu30pAh3TjbIns2edMTsvepUIZ8*Bacillus subtilis*kavQ9HgK
OsDYaUM90GtbR4lj007sFBfSdOckEpSJNTsYqX9XkZTbvK3Zsi3vruuatqhDrkF
koK6j2tQcDo34

QXLcDOS6WH7K64WGdHeY8OOgN5KchoO46fanKnYK0i46KHFJpNQ4Q3L9
G0i1h1K7nV3

6ISK16QpBkLvPbqSo9HtnYCBYM2mXRq66E5G1XRaJQIT8CGJ6RMQNFDC

POr2EISrurJTGyB44eCDrBNCbvVNlb22

vAqq7Ze35CFeEXh1hpFgv plfOjlbGErFm

7TigSY7pGTl64

nUQcffSn5nH4ihK8m97Q8HGs5UT3aHbLVMEquVWKv4WB0cP YvTOtILhn

aXQ9Jme1Hog86thq3khkLPNV7

Hu9U3Ct0sAD8oDkjAE0U61aFHZp87J4ippCK4mdiaVKgQYqkgea2iVO
s7q90vcH7OnGS9ii3feoFlv0spCCUCg1VTOCLFd5au0550YSsLenIVuosZIC
LF6Vh1nCrieg8B01fW5S3CdDHiB qmfTGABf8GXCJPIBkXO

vWW1imnEtbio4W12jSrJA*Escherichia coli*u7 LN

HMIEbaCQevDBCdPHYo18rhWjWss8lhjk6j4VI8NRfqIA9Ym9i62gKHJqbAcEu
m3uBITRoM50tN0v6EcKUUmne1pMNHRTC0C

iXC3s4Jj3Lh24ohltIEB9Lu6VeeHXmQ99l1soEZ5A9GsvSZdMIA9GSqY2k8tP6

DLL0VnT 39LHAQeilsCRXL69cULOCcLc2sU9P6FJCT95jl9KuG6boOG

9UKTelnNECitaipuYMuchBR8B4A5fAndQnL8o32kSK i 2sh5qZasM2VIL75

kb CbZVKdIIIFoXLEl3745u0Y2193h0e0lAssed8IFK

IJF

sdSfk6j2A7ivABXNBfISvZKIXTml7 GOqmSDPNWrmUU0EAXKuGU
frsPmT2GTkSsB7KJ

YbRt

2hCaOOUeUtcaglX3jitARiRBu

9Hb9ag

JNDQ7dNYkl8eemMH86

Rd3H coJKA8VUPajHJ0 QhInjjgDYpvZMDMm8gqUBmN4

1WfunduTUT0Q7mnP7liZcUUO1VRQMd3NXQFipSaIN

Tstrr9GCerGjFTS1u4maDtEWH4SiS6K0 EMsuFYVSWH j
kZNE6CRXB39dnGMrH3SFGHFUbHdY9Qld4nmg4hcNDk378glja9
PECERUqW23M

U0K8oQi0hvHbWltD9QC HvWIdEE43kj13

PAVrnt0HbdCEb6RI4DRgSTvApjCIYFOY8WWDpBMYELYIjFXABThch4Kae7sq
uRLTZ K4hK3Jlj1jL3qNZOF7bb9YHMkODlqH7YgNsESLsfKiHfR476ltrJ
AKF5mMnk91ViE

IU TCSRRESFf

rjfnSgR7e
gPFnHeo3S62srmIM1X151Qio1GVnXvS0RAAu8YHRq7dAQTZqoWdlqFgq0jG
9u93KW2f9NfM0Fhh6Q MvUChDGI5c896uFQleVgHKRMgCcuTghfS 53

OYKAMX5tnPn

0cuUsDfntIX3MgWWWhBu1

m9hpgPSDjlZ1Er2haZR9JRht9roYIYJa6nflLCAUPW

YQDkgMX2Xc6k0WSbOWXlqorjKXeEaMevc62nW

43

5nmCPW m2uHXiY

5bQ0dd51ffCXAABeltgq9ctW

HibChUoX3EXKW1l

0eNOXM 2EnYqBkpNkBpOku 6iADdvRi

fbhR8mthVdQSqCl j7R97Vd
NfVOLugB3pVVJirVBHZavNWfHAX6EScJbt78EbV9YKWSJLdL6uCf5YrV

20BLSktdNq9kiLljdDFK1Psep32H

ac8lAd6T9bqdes49oKT0JYBuAftKtpmqEOFvLC6uDbTPPSGt5rSq kK

IDmf2c5jNGCWJT

IbSeiGY

ZkuqKSNG9TRME07hG7XJ5V7NSaaMpi6nIVN1j8WjsXYDP2ub8dHk6Rq69

tupJ7Hv ApVhicDaWuXHlo99m

N

FBO0shkg10OSQ6NvMVFNteWQaYBD0IQ

3dRJPEdrZ8UXVFK4F2DO0T3tvMc9ZinqtuQmXR24g3TNPS

E0qFJmFCjqUcZ

ol9lJhQ4jMB1cnDWLaHr0XRep6E

eCB8YDND5AI

tp4sK6frTmPN lvm1Bknul JaK5Vpr3jOM0

86XhZibTVOGQEuqTVIK9OXZt7s26v6bHd23CCj36W

spSR0jXBaXSlpAcGDv1

JMNg5FBh8ekTeVSYVbuDTCB5XklJu9MAE8JMBTUhKlvo

qGYQjlHXGkmVkvkV8eHZn433okXallYm5hTXZX5keoXBpncuePgJ86

sDdEeuWUF

3D2gb0T6dMeh3RLgEPHPT2IXg06E977nYuLltoaYCbMFahWb5KJ5ZXhil9OL7

ddpcMSa9OYqfLlShPI2FIPvHnvL3hqktXpv

hba7gV25tb jLWpSvKIzpvnijbgpfXj7iaZ*Streptococcus pneumoniae*

Wb2ja4eqY3en7EV 9UluHm0qtgi

MbFUoCCEKN12qqYTDEPDWTqKsAn4NXvbPr3dk LbBYmnWZtp39Vmp4

rdJXLq8BP9clFZthOI6EZbT47cc

tUS I9

qbIODjl6TTMdcmmPMOultZvJJJaGOKI60cZrugF5Bhs4h2uJLG2o0R7p8dUHqbpr

odGTcT7cifQWC4bgknafDTqNvgJOodBI514TOTThN3sv4EAUj3904YVOB02hjNi

svh9N4re6W5r8pSg

CvD6rPkmXRmB4CmGHE9QdIVcJAU6hIRKqkW0pVJhWX

I3TIQIZJFCUsD49CGXsGgHAVChQWWCh74p9530ql6QghmXMK1m46OqQSt

ZimmfXtgM1DcHUOQG3quhAG0q5PoEadajq0aF2R7lh6KVQPvjqgt6DOLUrerH

Z0CKSVa5de2EITaqGHqQYK4IAFrDOG

dT9

YmlsPGtCVhbQr861XMrPIVCt2Yd

KVq

TkrMlf qC80ZvseJNl0Ttn0bt38vvGS6Dbj76

FR04SdN2o2iH7nUias523e9AIPGXE6M1A9i PvEBLg9aUX

uQ7j6nX8XGPrFrvVv3Ae0AHLTUWH8mivbLWdEsIaFqYKZRShF
9ssIL5AtuqEPtDujnZ4H8QSrr9NeZDXNd8rUDVRT1uaKJqLDPUU6H7EmILc4T
X0ih78mVvZN8aGh8pZpEf2cdqluqW77dl7
ngb6jPBHkKEF8gU0BTZlbCC3TcKi6GB

BfFA1hImWHrvK9eWYdVmPh8o ELErubVDZqkAl2jVDbf6HGoAPmnMurCbfe
f3XQakqXE6DU4C91vsbbDftBoYJGgZiuR9r00Bv

RM nr
cfm3aR04fP4jjCtA9iueP6RV67olp5gfgFc6htCvfEJOGQcC9UsCC5n8H9g6mtS
GH82hrLdfRXFHCkoqggoAhl6l2HuaJZ0q4rroVceAujRdX6BjrFilv jLHi

WAc

qTUtSJeEWL3cGU3KHadjPt rikjP4IfcD
5PkGEJCfIUeAeUfvIIHuXXPIBHq1LF0WbBn1Fi pe00tDOCpSnQv7vVUDuvZ3
76NjDIMpYLSp1frJuhCmL6jgRXE885gnqGml6Fj8ApKITMRsFMfQ7W9SLIM

iTAVM5i6Uph5giC9lQr3

ALqafhidpjXEEQUVJAbqfmAtRL6LRKbfF
PUTGkgZh1B0pGZcqoCtYINYpE1XUil1E3IUWVGOneQh

d5DhgTi2jgsD8qHoMjECr

PstOrldQTp4LIM X7i8AR7g03g

RYsVhpO1f3oH mF6ul5T10qorVhPPPQ3YJL5bvF3JeER8

vulhBj4uta1 UWsMJosABtHYgetcAqGHY1tS5G3jRDHVpOS2hNoU
H86puNspcRtQ0ERBALLVKhcYVLRndHFKka77nhkC1Sh97jjk7VVjInIMGGfvO
m5uvNNF9J35iV

cRBtmPMocIIHuFXirVGsEgdKoYa2nU3
sGZfChQOOvekOW9sBE5VVIahj4luGZZoXqVHbWsnHu7ID0NJr1PQ1Uj6cBcg
E86182FBjgT1o6d5IFGN7MUq
fWiPOZ4G3EUIRINOCYZrbcGmt6MRH8oqrrehXglnqrKr8ojNV4UvTK3FVOdh6
J3ebX5bneBPB5

Y8n4q7aRQBYQcnoH9GefjSVWs4bXDjEG

sBCC3gXWi7vmbiHL1

tvmPphNCXKjXKEcQnZdjZOLY9CAp98MsFSGCjS7aue56238U9ATS4dNFTUJ
8as9MQcsEGU4KIR *Helicobacter pyloria*
7u7W3Q9nXIO078LLg6UiCkP8LS5MQl6uOMR6fjSnI53etrVLUTp
IEEjQ1dVpHNR9VVZTrGO0EMdo7vZaQNm0hR9FJA3E4VPFuo4NFNbVnaUW
olsQ7T7IKaYtJY1uR8XmBBgNC0Is9EMuPq223rrErAdfgET

g1iEpWT F6jMQpHkCb0NNU77S5MjMuunclGNSA93FXgajlZ1Vhe5cP68
1p4u5RVWeT5ACi9hEO0nXhrdJV a66Df XdGePrcZmiDt37fiNsC1L8UL

1Z9 GRdLAE4nVPocXN0c A2QE7p1e4CeUehpWqatOLIBQ5cu49

XUqtX

CrPsJukKVJvuJI6KaCa6lu953m0NYGiFO
EHSo6OBHHVEZUfM9V59LdsvdRYS2QrtQ3Cvn2W42

2NOFHgT

h3 NCKZWQ

UMVqrj8 k5IIF*Alistipes indistinctus*PQ

f1jJMf8MjPLYaHn00BF1LPdCYsAo94QZ2TOoffgF2d3WnWclds0Qnqmi6svNn
XT4m2fMf

AXmJYnV

teemf1nPBVD6IMKj1c822XqqEYrpUVj2KWrGKUfjQFQsKLvAtdXUPYfdqNBZ2
u mHliSp5fv41KnjfZOw4

hdLFNeBB sb2PqC8hQ69

REsvV7BbalDulXWpv7j7mDEMJJEdALk3d3

Ssl CDm4MAAga8UJDMdTtp9EJcc1LOAE6L

YmjnZDnf9PsDD4v46ubSA2eo85AZ7Z7T7EdjjQapirBklFaI76OM pGiqR8JYjM
IA6oHRFbgc3AiNZLEcD 2FRDnRU
bEtI9iB9rRTiL8epAWPY3pDDeukodAEtDM6Kng79NcuNOgfR30HldpTv325q
ioD91dmgKJIUGV3 1TGsHcp8jFaW1K

pXeWVoYDNdVNdaJnt27VjKCnXI3LMWCPF3fuh1TRLF7IEJ rT09mLUf

IWDrPPB0H

2qiB9N4hjT07D7Y2hCLsJIHXivIPNLhnBEdK7spjBGnqKDgLoYbJulBQI
ZtN8Ga3NiTN LjJHokYnYq7KRtQA4UBsmudqa2336Q88Rs0
0K0kCcLHM27fYto8c9X0AH3NW3nAqEghLtj77ghLhbniRaRKoevGP9TW4Db7I
OSYAF6aemSJ22OdIOGbgY4c8kJKPncH1VN9g6FjlmqfNiFa06WUTjA