



Optimum

Stomach **a**cid **r**esistance

for Probiotics in capsules

2002 Frost & Sullivan Food and Beverages Market Engineering Award

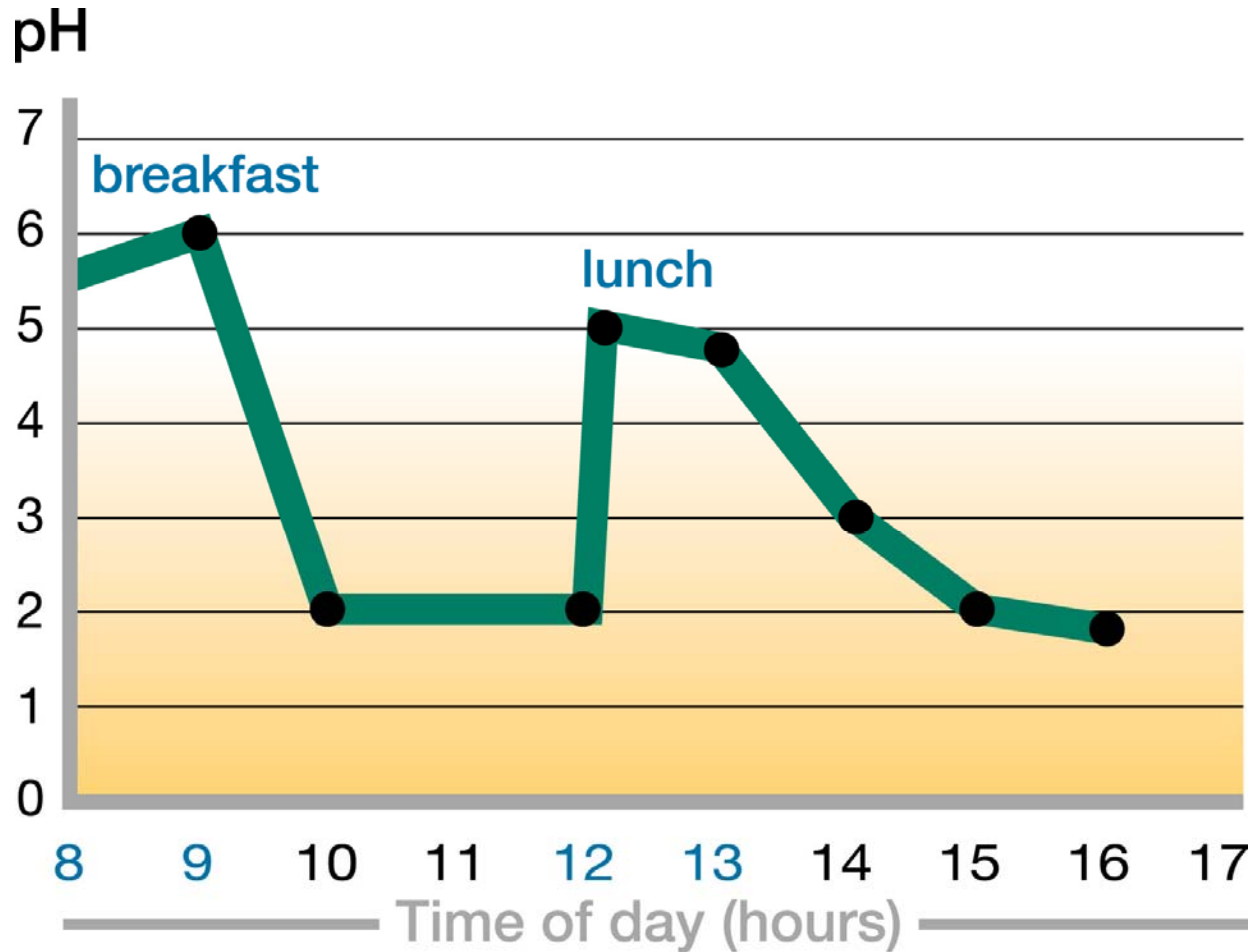
2001 Frost & Sullivan Technology Leadership Award



To be efficacious,
probiotics must reach the intestine alive,
which requires: **resistance to stomach acidity**



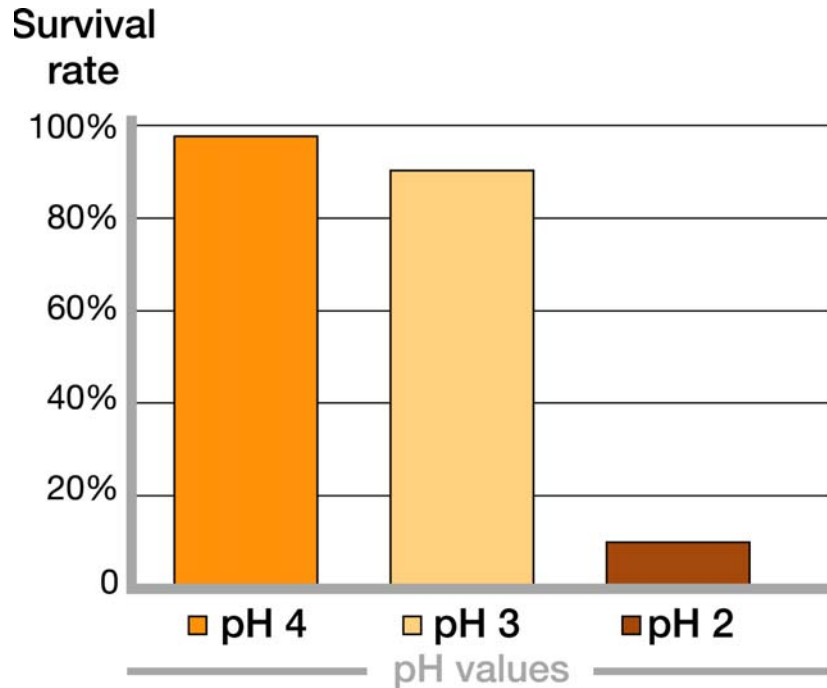
Stomach acidity varies during the day and can reach values lower than 2



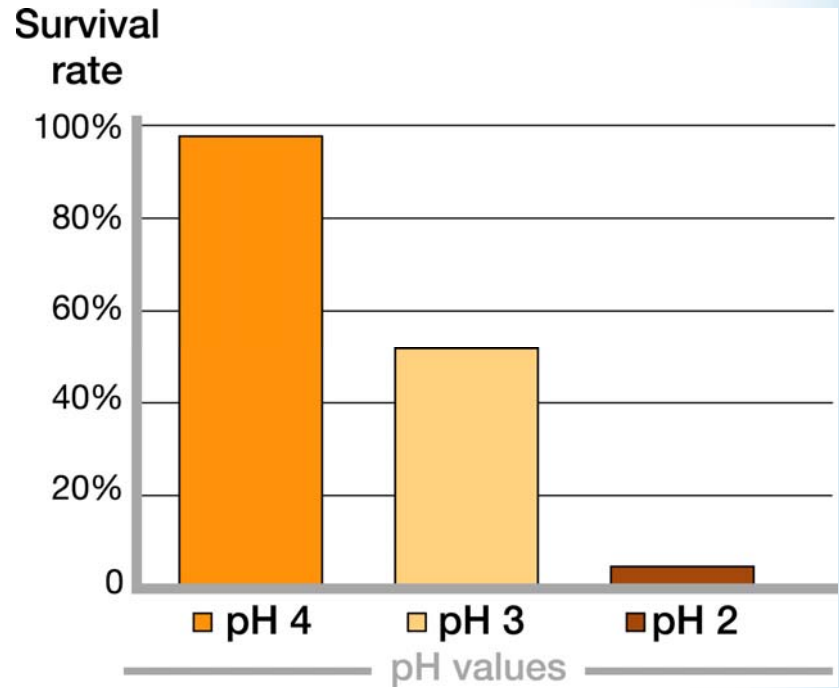
pH variation of stomach during daytime



All probiotics are very sensitive to gastric acidity



Probiotic strain A



Probiotic strain B

Not all probiotic strains are equally resistant to gastric acidity

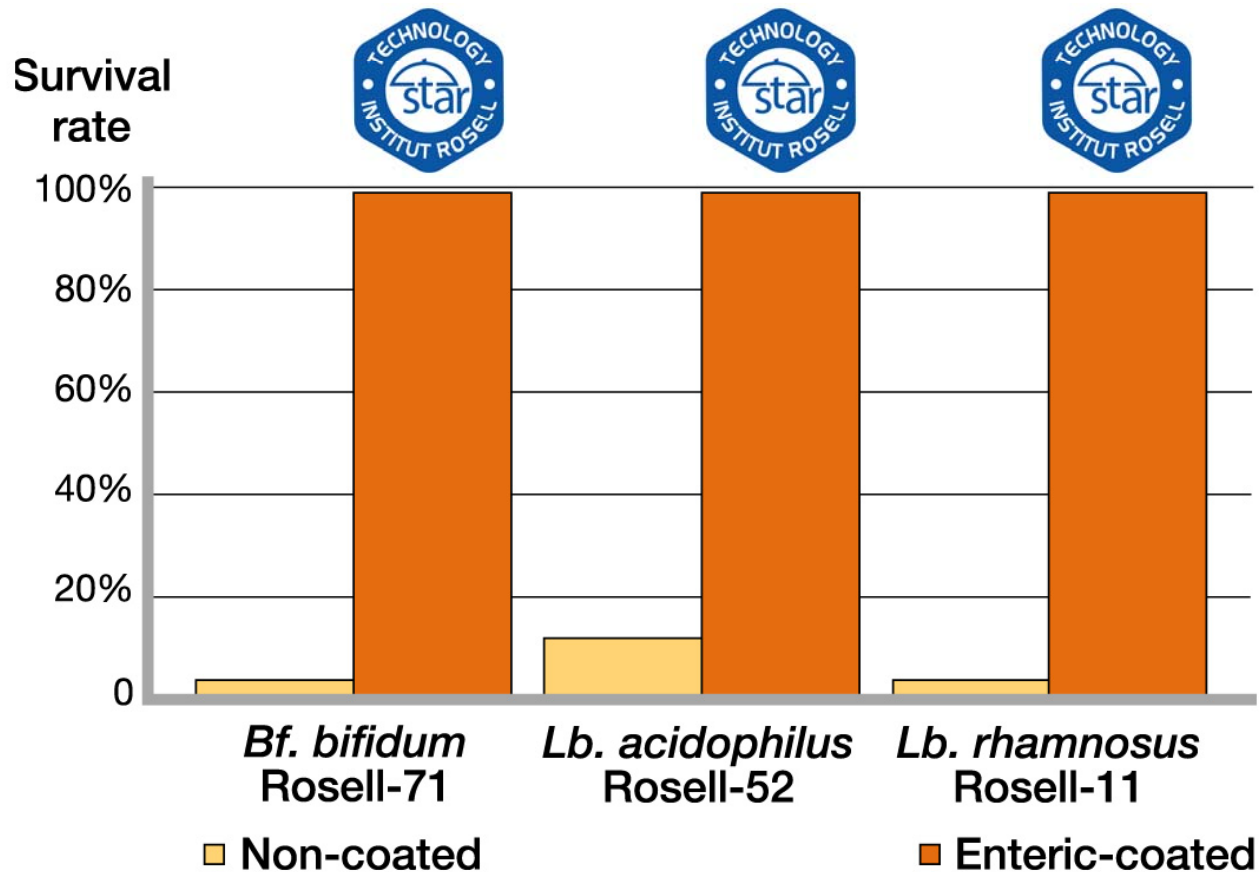


STAR (Stomach Acid Resistance) is an award-winning enteric-coating technology to:

- Protect bacterial strains against stomach acidity
- Deliver the bacteria at the intestines alive, the targeted site for bacterial presence



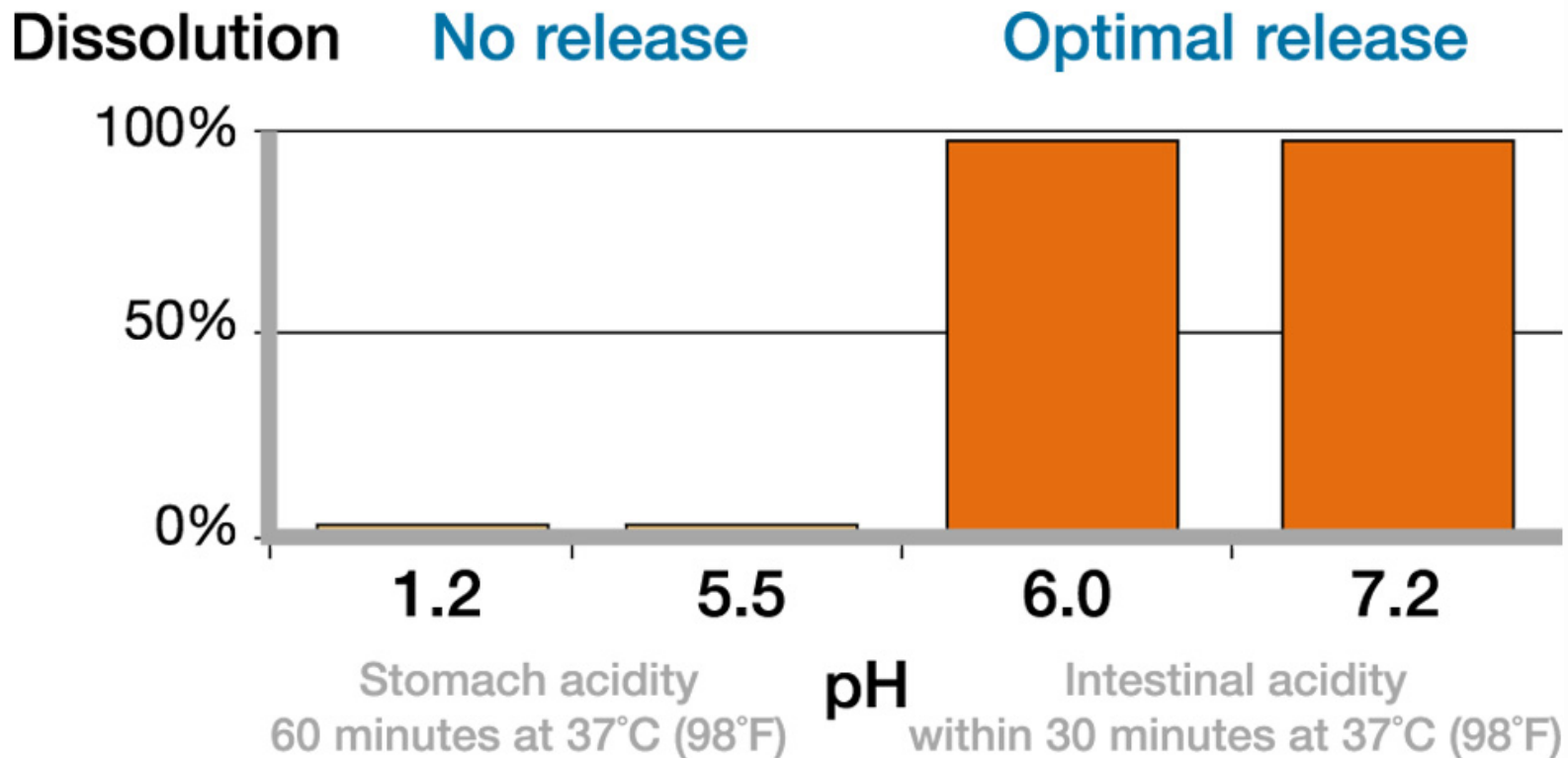
Probiotic protection against stomach acidity



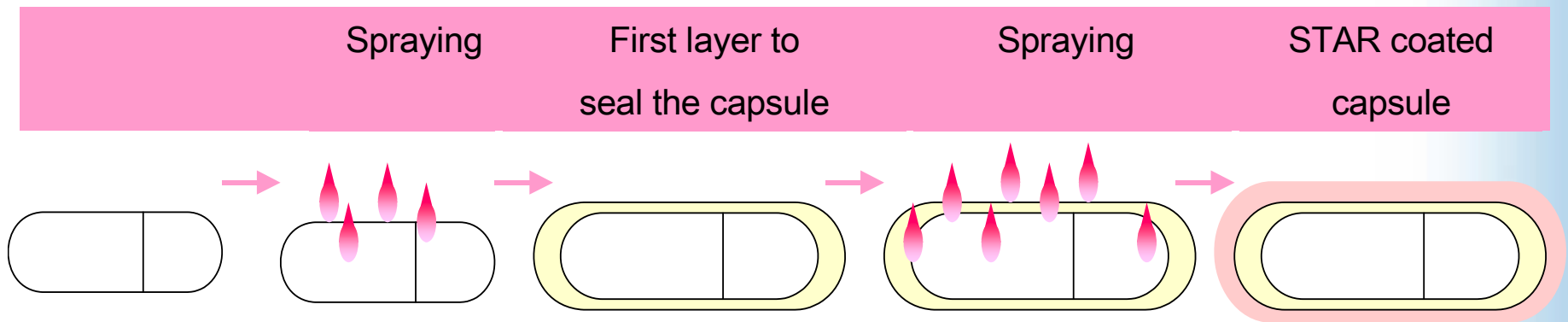
Survival rate after 30 minutes in the stomach at pH 2



Optimum release of probiotics in the intestines



The manufacturing process of Star



2002 Frost & Sullivan Food and Beverages Market Engineering Award

2001 Frost & Sullivan Technology Leadership Award



The quality standards of Star

- US Pharmacopoeia (USP-23) and Canadian pharmaceutical standards (DO-25)
- Non-GMO
- Environmentally friendly (water based coating)

