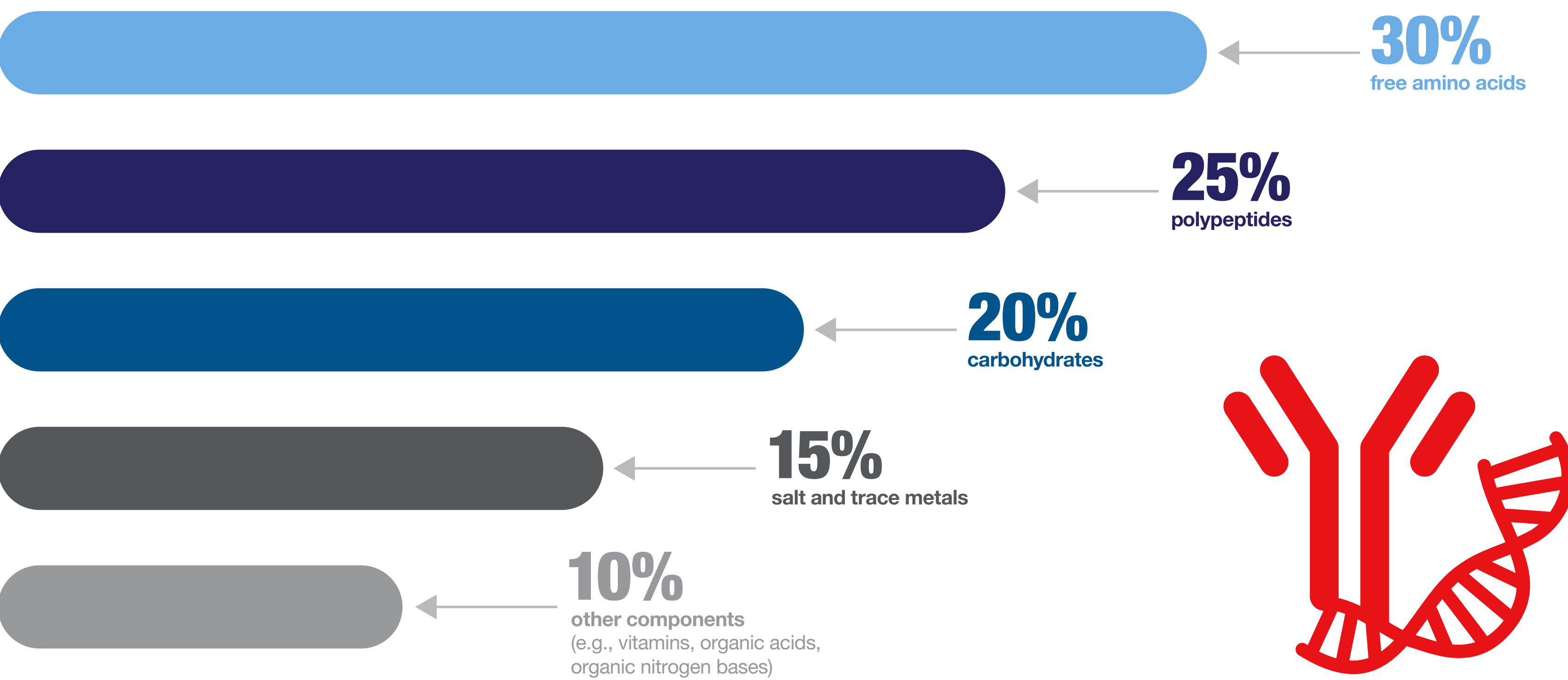


Enhancing complex mAb and AAV gene therapy production using peptones

Peptones possess multiple advantages for biopharmaceutical workflows such as those for complex mAb and AAV gene therapies, helping them to achieve improved cell growth and viability alongside lower variability due to more consistent processing. Additionally, their capacity for boosting specific productivity can facilitate a more productive manufacturing process within an existing infrastructure, creating significant cost benefits by curtailing the need for additional manufacturing capacity to meet product demand.

The benefits of peptones have already been realized for hundreds of commercially approved applications. Because a peptone can sometimes supplant multiple other discrete additives, manufacturers can simplify their supply chain and streamline workflows, potentially creating added time and cost advantages.*

COMPONENTS OF A TYPICAL PEPTONE



What is a peptone?

Peptones, or protein hydrolysates, are the water-soluble products derived from the partial hydrolysis of proteins from plant, yeast, or animal sources. Peptones can offer more consistency than certain other supplements for a range of biopharmaceutical manufacturing processes, a crucial consideration for enabling reproducibility and control. In addition, peptones provide essential nutrients that boost cell metabolism and productivity while also providing a buffering effect.

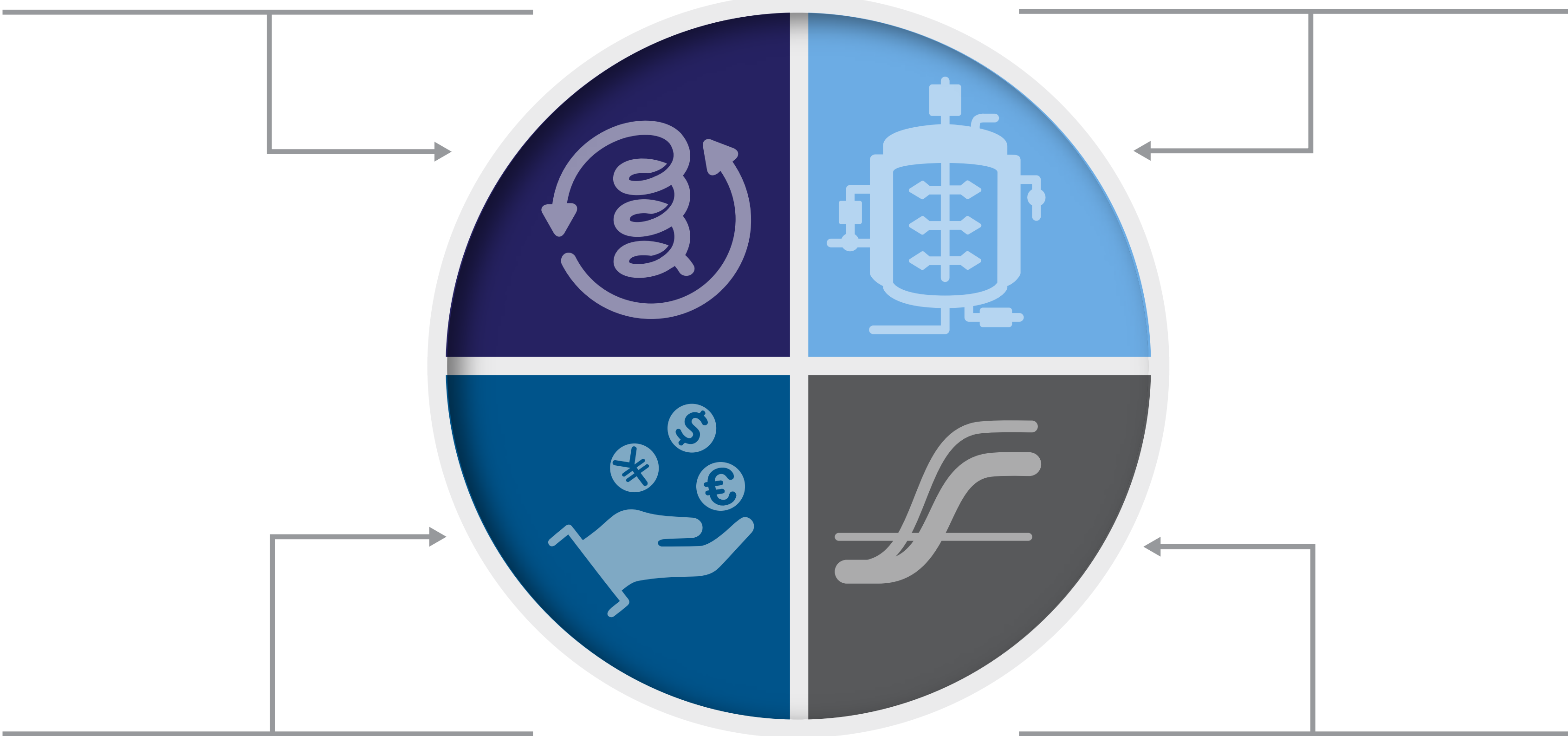
Examples of how peptones address production challenges include:

Challenge: yield optimization

Peptones provide essential nutrients that help boost metabolism productivity while conferring protection from toxicity, leading to higher yields.

Challenge: scalability

Peptones allow workflows to be optimized to help support high-density cell growth and enhance protein expression within existing processes.



Challenge: cost reduction

Peptones offer a cost-effective supplement to traditional media, helping reduce overall production expenses.

Challenge: consistency and quality

Peptones formulated specifically for bioproduction can be utilized to help increase the robustness of upstream workflows and maintain product quality.

* [Article: Peptones for complex protein therapies, November 2024.](#)