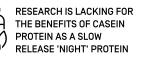
AIS SPORTS SUPPLEMENT FRAMEWORK



ISOLATED PROTEIN SUPPLEMENTS GROUP A

Protein supplements can be broadly classified as either: providing protein only (>90% protein) i.e. isolated protein supplements), or a protein blend [see Mixed Macronutrient Supplements]. Isolated protein supplements are generally low in carbohydrate, fat and lactose.







PLANT PROTEINS ARE BECOMING INCREASINGLY POPULAR DESPITE THEIR LOWER BIOLOGICAL VALUE

BENEFITS OF PROTEIN & SITUATIONS FOR USE

Protein is the building block of the body's muscle, bone, cartilage, skin, blood, enzymes and hormones. It has a range of benefits to athletes including:



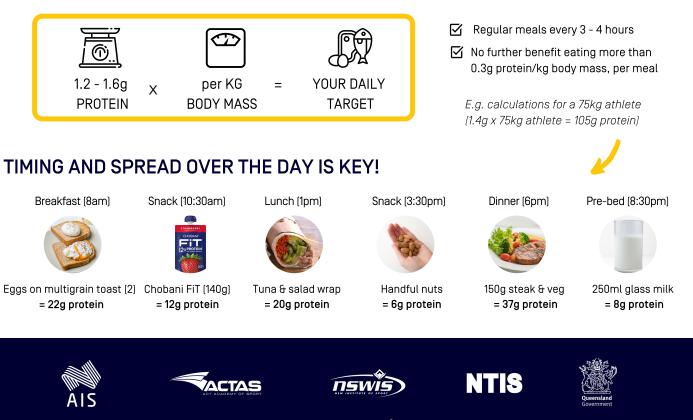


SATIETY (FEELING FULL)

- PROTEIN SUPPS TYPICALLY PROVIDE 20-30g PROTEIN &~500kJ PER SERVE
- Most athletes meet their protein requirements quite easily with food, however a protein supplement might be useful when:
 - A food form of protein is not practical in terms of storage/ travel/ time
 - Boosting the protein content of food options naturally low in protein
 - Rapidly digested protein is required e.g. immediately after key workouts
 - An alternative to food is required when appetite is poor
 - Higher targets for protein are required when aiming to reduce fat mass and protect muscle mass (1.6 2.4g/kg body mass)

HOW MUCH PROTEIN DO YOU NEED DAILY?

Athletes in heavy training need **MORE** protein than sedentary people:



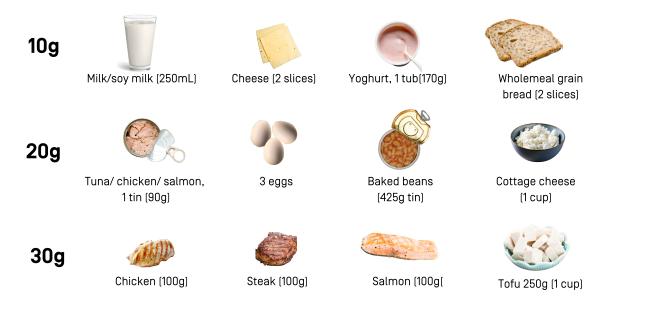
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ISOLATED PROTEIN SUPPLEMENTS



FOOD FIRST PHILOSOPHY

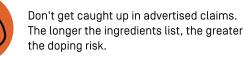
A 'food first' philosophy should apply to all supplements, but especially protein, because of the high biological value of readily available protein-rich whole foods, that also offer further benefits to overall diet quality.



CONCERNS & CONSIDERATIONS



Protein supplements may not have the same impact on fullness vs. real 'solid' food.





Concern around heavy metals and BPA found in some protein supplements.



May be lacking nutrients that are naturally present in real food. e.g. protein supplements are often low in calcium even if dairy derived.



Little practical difference between Whey Protein Concentrates (WPC), Isolates (WPI) and Hydrolysates (WPH) besides increasing cost respectively.



May contain nuts, milk, soy and other allergens that some athletes may need to avoid.



All supplements have a doping risk of some kind. Some supplements are riskier than others. Athletes should only use batch-tested supplements. The Sport Integrity Australia app provides a list of more than 400 batch-tested products. [www.sportintegrity.gov.au/what-we-do/supplements-sport].

While batch-tested products have the lowest risk of a product containing prohibited substances, they cannot offer you a guarantee. Before engaging in supplement use, you should refer to the specific supplement policies of your sport or institute and seek professional advice from an accredited sports dietitian (www.sportsdietitians.com.au). Athletes are reminded that they are responsible for all substances that enter their body under the 'strict liability' rules of the World Anti-Doping Code.











Wais

