

## Animal Nutrition

# Soybean nutrients

Macronutrients play a critical role in animal nutrition. **Proteins** help to build tissue and enzymes, **carbohydrates** provide fuel for the body, and **lipids** protect tissue and aid in neural development. Animal nutrition experts create feed for animals by blending different macronutrients and minerals together. Grains are a primary source for these macronutrients and soybeans are an important source of protein.

Take a look at the soybean chart below. Soybeans contain protein, lipids, and carbohydrates. Use the linked nutrient testing pdfs to test for these macronutrients in soybeans: [protein test](#); [lipid test](#); [carbohydrate test](#). Share your results with the class. Nutrient testing documents can be found at [grownextgen.org/curriculum/here-fishy-fishy](http://grownextgen.org/curriculum/here-fishy-fishy).

Nutrient testing materials:

- Test tubes
- Timer
- Soybeans
- Disposable pipets
- Vortex
- Sudan III
- Biuret solution
- Distilled water
- Lugol's iodine
- P1000 micropipetter
- Beaker (250mL)
- Benedict's solution
- Stir sticks
- Test tube rack
- Microwell plates
- Corning hot plate
- Funnel
- Filter paper

### What's in a soybean?

