

Soluble Protein

The Soluble Protein (SP) content of a feed is estimated by mixing a sample in borate-phosphate buffer solution. [Crude Protein \(CP\)](#) which is soluble in the buffer is measured using the [Kjeldahl procedure](#).

SP estimates the amount of CP which will readily dissolve when a feed enters the rumen. It is assumed that this fraction represents CP (both [true protein](#) and [non-protein nitrogen](#)) which is rapidly degraded by rumen microbes. The CP of most forages is 40-50% soluble. Higher SP levels are often found in silages which are put up very wet (less than 30% dry matter). When this is the case, the [undegradable \(bypass\) protein](#) value of the forage should be discounted.

for more information:

[Understand Your Feed Analysis Report](#), *Alberta Dairy Management*