Factory calibrations
for Infracont XGrain and SGrain instruments

Product	Components	Basis	Range	Accuracy (SEP, standard error of prediction)	Precision (SD of repeatability measurements)
Wheat	Gluten Protein Moisture Zeleny-index W (under dev.) Specific weight[1]	N×5.7 D.M.* D.M. D.M.	15-50% 8-18% 9-20% 10-70 ml 60-500 J 65-86 kg/hl	1.5 0.25 0.2 5.0 50 0.7	0.4 0.1 0.1 1.5 15 0.35
Winter Barley	Protein Moisture Specific weight[1]	N×6.25 D.M.	7-18% 9-20% 58-76 kg/hl	0.35 0.2 0.7	0.15 0.1 0.35
Spring Barley	Protein Moisture Specific weight[1]	N×6.25 D.M.	7-18% 9-20% 58-76 kg/hl	0.35 0.2 0.7	0.1 0.1 0.35
Durum	Gluten Protein Moisture	D.M. N×5.7 D.M.	20-40% 11-18% 10-20%	1.5 0.25 0.2	0.4 0.1 0.1
Rye	Protein Moisture	N×6.25 D.M.	7-14% 10-20%	0.35 0.2	0.1 0.1
Triticale	Protein Moisture	N×6.25 D.M.	10-16% 10-20%	0.25 0.2	0.1 0.1
Oats	Moisture Specific weight[1]		10-20% 45-75 kg/hl	0.25 1.0	0.1 0.5
Corn	Protein Moisture Starch Oil Specific weight[1]	N×6.25 D.M. D.M. D.M.	6-11% 12-40% 65-73% 3-5% 68-82 kg/hl	0.4 0.5 1.0 0.3 0.8	0.15 0.15 0.4 0.1 0.4
Rapeseed	Oil Oil Moisture	As is D.M.	34-46% 36-52% 5-12%	0.7 0.8 0.3	0.4 0.5 0.15
Soybean	Protein Protein Oil Oil Moisture Specific weight[1]	As is N×6.25 D.M. As is D.M.	26-40% 32-45% 14-24% 17-26% 8-25% 70-80 kg/hl	0.5 0.6 0.3 0.4 0.4 0.7	0.2 0.3 0.15 0.15 0.1 0.35
Sunflower seed (husked)	Moisture Oil Oleic acid	As is	5-10% 36-50% 20-90%	0.4 1.5 6.0	0.2 0.6 3.0
Peas	Moisture		11-20%	0.4	0.15

Product	Components	Basis	Range	Accuracy (SEP, standard error of prediction)	Precision (SD of repeatability measurements)
Beans	Moisture Protein	N×6.25 D.M.	11-20% 20-28	0.4 0.6	0.15 0.3
Sorghum	Moisture Protein	N×6.25 D.M	10-20% 9-12 %	0,4 0,4	0,15 0,2
Wheat flour⁺	Gluten Moisture Ash Protein	D.M. N×6.25 D.M.	20-40% 12-16% 0.4-1.4% 11-18%	1.2 0.3 0.035 0.35	0.4 0.1 0.015 0.1
Semolina⁺	Moisture Protein	N×6.25 D.M.	12-16% 11-18%	0.3 0.35	0.1 0.1
Soymeal⁺ (extracted)	Protein** Moisture	As is	40-50% 8-14%	0.5 0.2	0.15 0.1
Soybean expeller⁺ (pressed)	Oil Protein** Moisture	As is As is	4-15% 32-45% 2-14%	0.3 0.6 0.3	0.1 0.2 0.1
Corn grits⁺	Moisture Protein Oil	N×6.25 D.M. As is	10-15% 5-8% 0.8-3%	0.2 0.2 0.2	0.1 0.1 0.1
Corn flour⁺	Moisture Protein Oil	As is As is	10-16% 5-8% 1-3%	0.2 0.2 0.2	0.1 0.1 0.1
Rice (husked)	Protein Moisture	N×6.25 D.M.	4.5-8% 10-15%	0.25 0.2	0.1 0.1
Rice (unhusked)	Moisture		10-25%	0.3	0.2

*   D.M.: on dry matter basis
**   crude protein

1: only in Infracont XGrain
+ cuvette needed