Mid-infrared spectroscopy for large-scale phenotyping of bovine colostrum gross composition and immunoglobulins concentration

SUPPLEMENTAL MATERIAL

Supplemental Table S1. Samples' inclusion criteria[1].

Trait	N	Editing 1	Editing 2	Editing 3	Editing 4
Imunoglobulins, g/L					
G	678	676	562	561	531
A	678	573	484	475	455
M	678	658	546	544	522
Total[2]	678	525	477	476	458
Protein, %	678	678	597	597	559
Fat, %	678	678	597	591	557
Lactose, %	678	678	616	610	577

[1]N = number of samples (1 per cow) from purebred Holstein cows' that calved between spring 2019 and spring 2020 as described in Costa et al. (2021); Editing 1 = number of samples with target component concentration (reference) available, net of missing values (in the case of the immunoglobulins fractions missing values were due to a not readable/non-circular RID ring or to a concentration out of the RID kit detection range; Editing 2 = number of samples with both mid-infrared spectra and reference concentration; Editing 3 = number of samples net of reference outliers, i.e. values out of the range mean ± standard deviation; Editing 4 = number of samples net of spectral outliers, i.e. with a Mahalanobis distance >3.

[2]only when IgG, IgA, and IgM concentration were simultaneously available.