

Table 1 - Main characteristics of manure samples

	TS (g kg⁻¹)	VS (g kg⁻¹)	VS/TS
RMCH	140.1	118.5	0.85
RMP	112.5	83.49	0.74
DSM	60.25	42.03	0.70

Table 2 - Results of solid-liquid separation test for 200 ml RMP. Polymer dose, TS content of the separated liquid fraction and percentage of TS removed in the solid fraction.

Volume of polymer solution added (mL)	Polymer Dose (g kg⁻¹ of TS)	TS content of LF (kg m⁻³)	% TS removed
150	33.3	17.97	84.02
170	37.8	15.14	86.54
183	40.7	13.65	87.86
191	42.5	13.61	87.90
200	44.5	11.94	89.38
212	47.0	12.51	88.88
229	50.8	12.65	88.75
230	51.1	11.86	89.45
250	55.6	12.19	89.16
270	60.0	11.20	90.04

Table 3 - Values of Logistic Model constants for the three kind of samples, Diluted Screened Manure (DSM), Raw Manure taken from the pit (RMP) and Raw Manure taken form the Cow House (RMCH)

Sample	a	b	c	r²	s
DSM	84.7959	105.792	0.191136	0.9623	1.2406
RMP	89.7496	10.6704	0.151348	0.9769	0.43407
RMCH	93.4947	1925.61	0.278700	0.9643	0.49835

Table 4 - Dairy manure, solid and liquid fractions: composition and mass distribution as percentage for RMP and polymer solution added.

	RMP_{controlled} (g kg ⁻¹)	Polymer solution (3 kg m ⁻³)	SF (g kg ⁻¹)	SF (%)	LF (g kg ⁻¹)	LF (%)
TS	101.2		158.9	76.1	19.46	22.5
VS	78.70		129.6	79.9	12.21	18.1
TKN	4.19		5.13	59.4	1.47	41.2
TP	0.81		1.45	87.4	0.07	10.6
Mass	1000 g	666 g	485 g	29.1	1168 g	70.1

Table 5 - Main characteristics of liquid fraction (all units, except pH, in kg·m⁻³)

pH	TS	VS	COD_T	COD_f	COD_{VFA}	NKT	TP
6.8	19.5	12.2	21.5	18.5	16.3	1.48	0.07

Table 6 - Anaerobic biodegradability test for liquid fraction

Day	0	3	7
COD_t (g)	21.5	4.13	3.21
COD_{VFA} (g)	16.3	0.19	0
Vol. CH₄ (dm³)	0	6.53	6.88
COD_{CH4} (g)	0	17.0	17.9
COD_{acid} (g)	16.3	17.2	17.9
COD_{CH4} (%)	0	78.8	83.0
COD_{VFA} (%)	75.5	1.3	0
COD_{acid} (%)	75.5	80.1	83.0
COD_{cel} (%)	0	3.4	4.2
COD_{BD} (%)	75.5	83.6	87.2