

## SUPPLEMENTARY MATERIAL

### Supplementary Tables

**Supplementary Table S1 – Clinical presentation and sensitization profiles of the patient and the controls**

		Cow's milk sIgE						Sheep's milk sIgE		Goat's milk sIgE
Subj.	Clinical presentation	Total IgE (IU/ml)	Cow milk (kUA/l)	BSA (kUA/l)	$\alpha$ -lactalbumin (kUA/l)	$\beta$ -lactoglobulin (kUA/l)	Casein (kUA/l)	Sheep's milk (kUA/l)	Sheep whey (kUA/l)	Goat's milk (kUA/l)
#1	Severe anaphylaxis to GSM, no CM allergy	100	0.19	<0.10	0.16	0.11	<0.10	<b>0.76</b>	<b>0.74</b>	<b>0.53</b>
#2	Severe anaphylaxis to CM and GSM	161	<b>0.73</b>	<0.10	<0.10	<0.10	<b>1.47</b>	<b>27.7</b>	ND	<b>39.6</b>
#3	CM allergy, GSM allergy not reported	302	<b>7.1</b>	<0.10	<b>2.8</b>	<b>4.07</b>	<b>1.78</b>	<b>2.18</b>	ND	<b>1.37</b>
#4	No milk allergy, but sensitization to BSA	124	<b>0.83</b>	<b>1.74</b>	<0.10	<0.10	<0.10	<0.10	ND	<0.10

**Supplementary Table S2 – Literature Review: Adult patients (>18 years) with isolated GSM allergy**

Age, Sex	Allergen	Tolerated	SPT	IgE (or RAST)	WB using GM and/or SM	Reaction	Atopy	Ref
39, m	GC, SC	CM	GM+, GC+, SM+, SC+, CM-, CC-	GM+, SM+	$\kappa$ -casein (18kD) whey protein	U, A, H	ARC	*
27, f	GC	CM, CC, SC	GM+, GC+, CM-	GM-, CM-	$\alpha$ -Lactalbumin (14kD)	U	AA, ARC	[1]
25, m	GC, SC	CC	CM-, GM+	GC+ SC +	n/a #	U, A, R	no	[2]
43, m	SM, SC	CM	SM+, SC+, GM+, CM-	SM+, GM+, CM-	$\alpha$ - or $\beta$ -casein (25kD)	G, R, H	no	[3]
55, f	GC	n/a	n/a	GM+	$\beta$ - or $\gamma$ -casein (20-28kD)	U, A, R	AD, AA	[4]
25, f	SC	CM, CC	SM+, SC+, GM+, CM-	SM+, CM-	$\alpha$ -S2 casein	A, G	AA, AD	[5]

\*= this report. A= angioedema; AA= allergic asthma; AD= atopic dermatitis; ARC= allergic rhino-conjunctivitis; CC= cow cheese; CM= cow milk; f= female; G= gastrointestinal; GC= goat cheese; GM= goat milk; H= hypotension; m= male; n/a= not available/reported; neg.= negative; R= respiratory; SC= sheep cheese; SM= sheep milk; U= urticaria; WB= Western Blot/Immunoblot. #= goat and sheep casein positive in RAST