

Online resource 2

Table 1. Composition of the High-fat diet (HFD) fed to the rats

Ingredient	Source	Percentage (%)	Kcal
Corn oil	Fat	58	522
Coarsely ground maize	Carbohydrate	17	62
Vitamin mix	Vitamins	1	2
Mineral mix	Minerals	5	10
Energy (kcal/100 g)			596

Table 2. Individual groups of rats were used for the current experiment

Groups (8 rats/ group)	Description of Treatment (up to 90 days)
Group N (No HFD: healthy control)	Standard rat chow diet
Group A (HFD: non-diabetic control)	<i>In-house</i> prepared high-fat diet (HFD) (58% calories as fat) fed group
Group B (HFD+STZ: diabetic control)	<i>In-house</i> prepared high-fat diet + Streptozotocin (@ 35 mg/kg bw, ip, one injection) - treated (HFD+STZ)
Group C (HFD+ STZ+ Insulin: standard therapy)	HFD+STZ (@ 35 mg/kg bw, ip, one injection) + Insulin (@ 0.1 U/kg bw (upto 180-200 mg/dl glucose) or (@ 0.15 U/kg bw (>200 mg/dl glucose), sc, od) [Standard dose of insulin]
Group D (HFD+ STZ+ Test extract: test group)	HFD+STZ (@ 35 mg/kg bw, ip, once) + <i>Gymnema sylvestre</i> leaf extract (@ 250 mg/kg bw, po, od, with drinking water)

Note: bw: body weight; ip: intraperitoneal injection; sc: subcutaneous injection; po: per os (orally); od: once daily

28 **Table 3.** Primer sequences used for the RT-qPCR

Gene Name	Forward/	Gene Sequence	Product Size (bp)
	Reverse		
Rat IL6	F	CACTTCACAAGTCGGAGGCT	114 bp
	R	TCTGACAGTGCATCATCGCT	
Rat TNF- α	F	ATGGGCTCCCTCTCATCAGT	106 bp
	R	GCTTGGTGGTTTGCTACGAC	
Rat UCP1	F	GGATCAAACCCCGCTACACT	92 bp
	R	AGGAGTCGTCCCTTTCCACA	
Rat ELOVL6	F	CGGCATCTGATGAACAAGCG	109 bp
	R	AAGCACCAGTTCGAAGAGCA	
Rat CCL2	F	GCCTGTTGTTACAGTTGCT	87 bp
	R	ATGAGTAGCAGCAGGTGAGTG	
18s Rrna	F	CCTGCGGCTTAATTTGACTC	118 bp
	R	AACTAAGAACGGCCATGCAC	

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