



REVISTA DE LA ACADEMIA
COLOMBIANA DE CIENCIAS
EXACTAS, FÍSICAS Y NATURALES

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Información suplementaria

**Antileishmanial, immunomodulatory, and pro-regenerative effects of a TC2-SS
topical formulation in *Leishmania braziliensis* cutaneous leishmaniasis. In vitro and
in vivo studies**

Efecto antileishmanial, inmunomodulador y pro-regenerativo de una formulación
tópica de TC2-SS en leishmaniasis cutánea por *Leishmania braziliensis*. Estudios in
vitro e in vivo

Eyson Quiceno, Julián Agudelo, Yulieth Upegui, Victoria Ospina, Javier Murillo, Fernando Echeverri, Wiston
Quiñones, Sara M. Robledo

Correspondencia: Sara María Robledo Restrepo, sara.robledo@udea.edu.co

Table of Contents

Figure S1A

Figure S2

Table S1

Table S2

Figure S1A. NMR of triterpene saponins SS: i) hederagenin-3-O-(3,4-O-diacetyl- β -D-xylopyranosyl-(1 $\rightarrow$ 3)- α -L-rhamnopyranosyl-(1 $\rightarrow$ 2)- α -L-arabinofuranoside); ii) hederagenin-3-O-(3,4-O-diacetyl- α -L-arabinopyranosyl-(1 $\rightarrow$ 3)- α -L-rhamnopyranosyl-(1 $\rightarrow$ 2)- α -L-arabinofuranoside), and iii) hederagenin-3-O-(4-O-acetyl- β -D-xylopyranosyl-(1 $\rightarrow$ 3)- α -L-rhamnopyranosyl-(1 $\rightarrow$ 2)- α -L-arabinofuranoside).

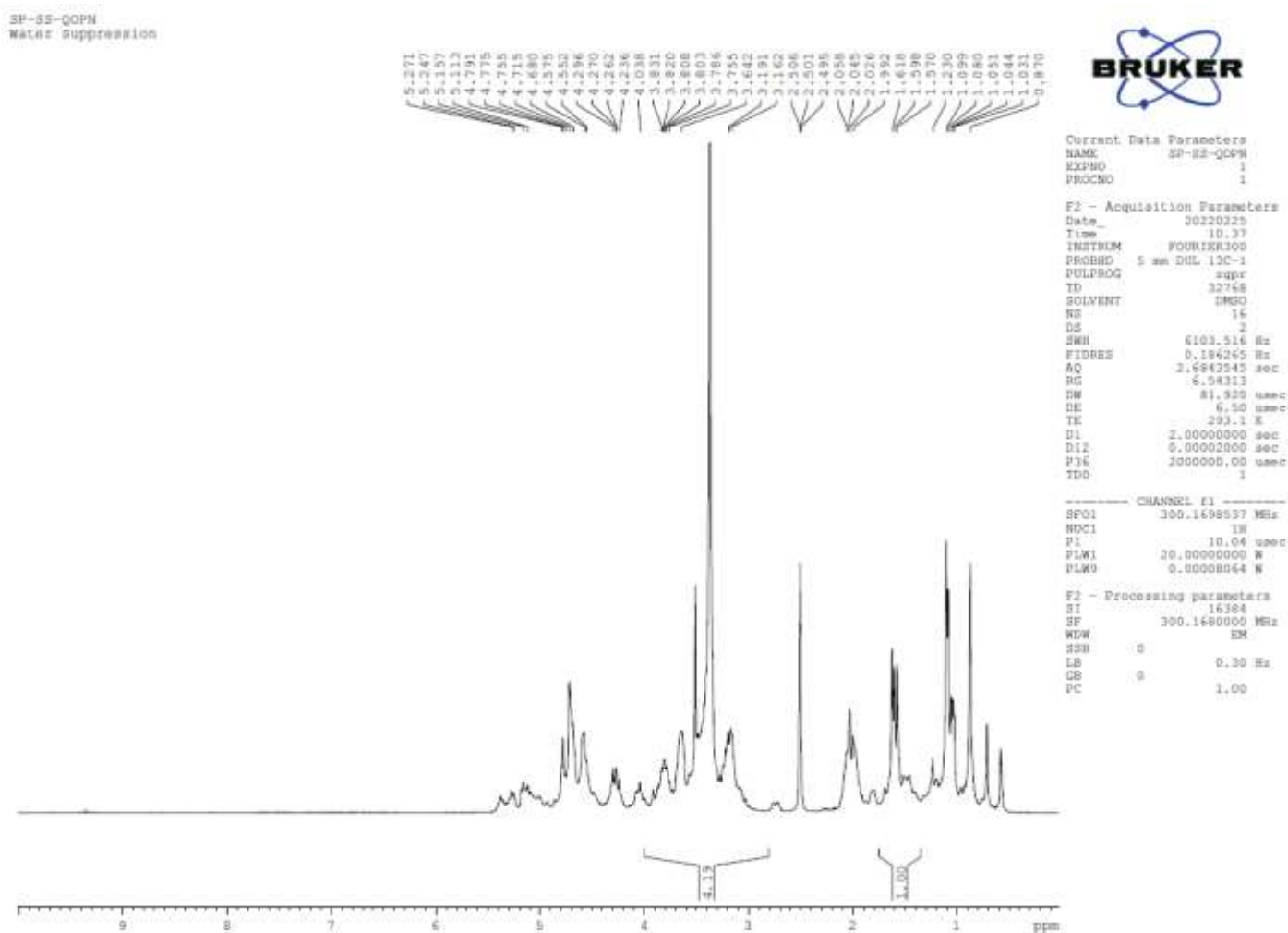


Figure S1B. NMR of chroman hydrazine TC2:

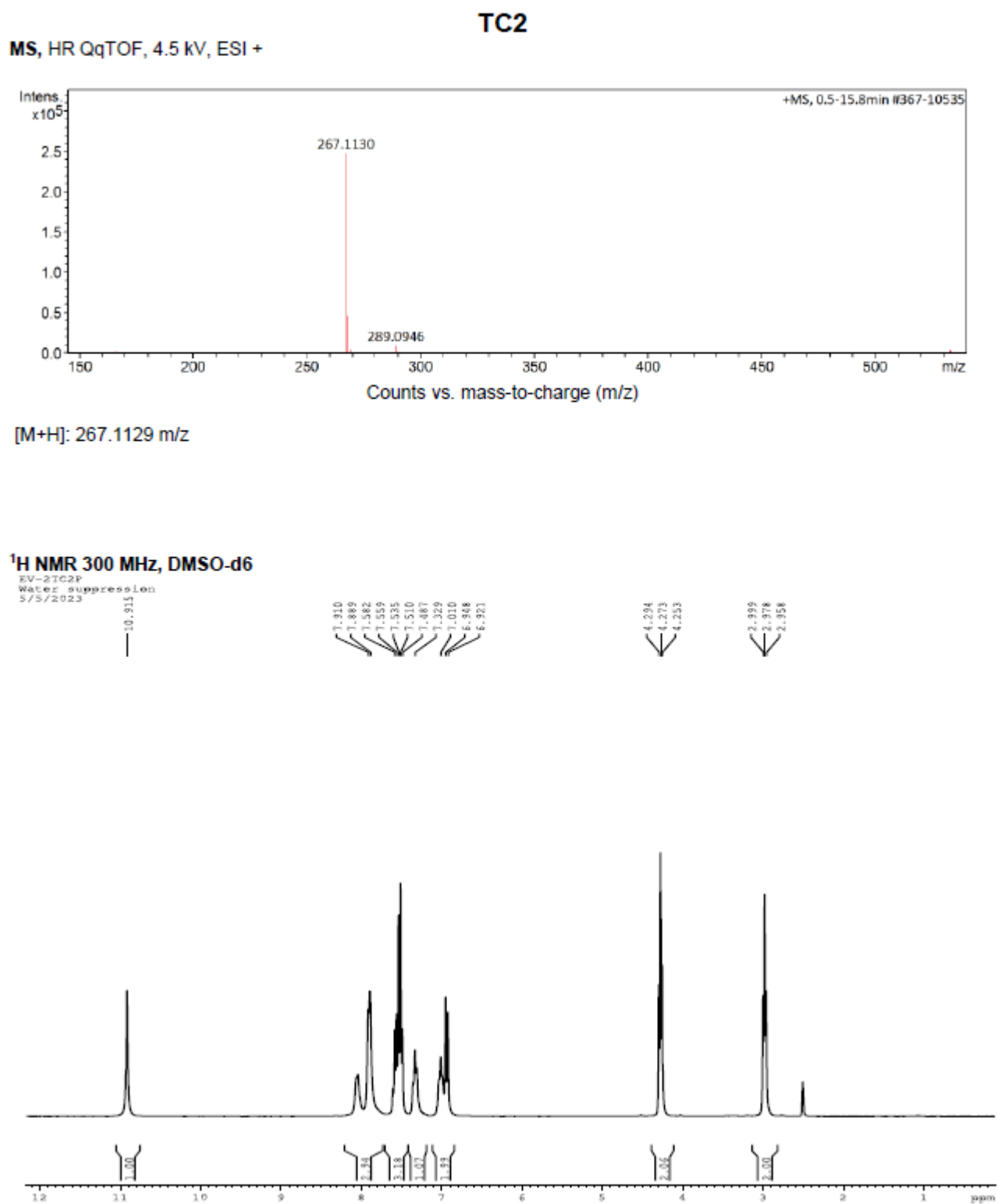
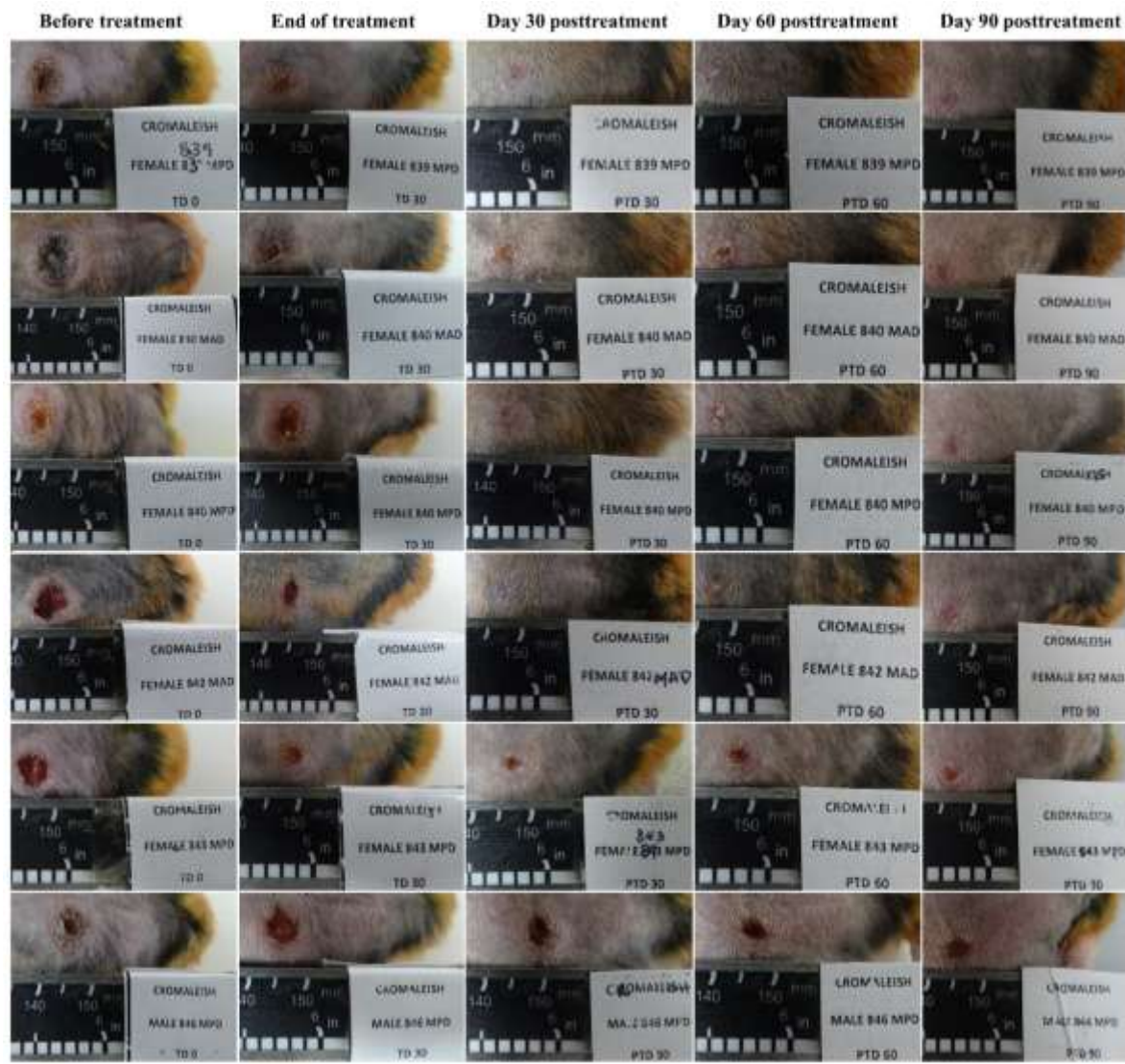


Figure S2. Photographs of the evolution of lesions in hamsters treated with TC2-SS (A) and Meglumine antimoniate (B). The photos presented correspond to the clinical evolution of cutaneous leishmaniasis following treatment. The abbreviations MPD and MAD refer to internal codes used to label each hamster within their respective group. TD0: lesion size before treatment; TD30: lesion size at last day of treatment; PTD30: lesion size at day 30 post-treatment; PTD60: lesion size at day 60 post-treatment; PTD90: lesion size at day 90 post-treatment; Cromaleish corresponds to the name given to the combination of 4% TC2 and SS; MA: meglumine antimoniate. * no photo available.

A.



B.



Table S1. Primers used for RT-qPCR. Sequence (5' 3'), primer length, and melting temperature.

Gen	Sequence primers (5'-3')	Primer length (bp)	Tm (°C)
GAPDH	Fw: ATC ACT GCC ACC CAG AAG ACT	Fw: 21	Fw: 60.0
	Rv: CAT GCC AGT GAG CTT CCC GTT	Rv: 21	Rv: 60.0
MIP-1 α	Fw: CTG CGG CAG TTG TTC CAC AG	Fw: 20	Fw: 61.2
	Rv: GGG AGA TGT GGA GCT GAC CC	Rv: 20	Rv: 61.0
IL-1 β	Fw: TAT TCA AAG GGG GCA AGA AG	Fw: 20	Fw: 54.4
	Rv: TAA AGA GAG CAC ACC AGT CC	Rv: 20	Rv: 53.8
TNF- α	Fw: CTTCCAGCTGGAGAAGGGTG	Fw: 20	Fw: 64
	Rv: CCCAAAGTAGACCTGCCCAG	Rv: 20	Rv: 64
IL-4	Fw: GCT TCC CCC TCT GTT CTT CC	Fw: 20	Fw: 59.1
	Rv: CTG CTC TGT GAG GCT GTT CA	Rv: 20	Rv: 59.0
TGF- β 1	Fw: CTG GCG ATA CCT CAG CAA C	Fw: 19	Fw: 52.8
	Rv: TAA GGC GAA AGC CCT CAA	Rv: 18	Rv: 53.1
IL-10	Fw: AAGACCCAGACATCAAGGCG	Fw: 20	Fw: 62
	Rv: AGGCATTCTTCACCTGCTCC	Rv: 20	Rv: 62

Table S2. Sequences of Primers and probes used for RT-qPCR for quantifying the expression of growth factor in the skin of the golden hamster

Growth factor	Fw Primer	Rv primer	Probe
EGF	CAGAACAAAGCCA GAAAATC	CTGCAAGTACGTTCG TTTAACT	AGACTCGCGTTGC AAGGCG
TGF- β 1	AGCCTGGACACAC AGTACAGTA	CTTGCGACCCACGTA GTAC	AACACAACCCGGGT GCTTC
γ Actin	ACAGAGAGAAGAT GACGCA	GCCTGAATGGCCACG TAC	TTGAAACCTTCAAAT GACGCA