

Supplementary Materials

Pharmaceutical development and safety evaluation of a GMP-grade Fucoidan for molecular diagnosis of cardiovascular diseases

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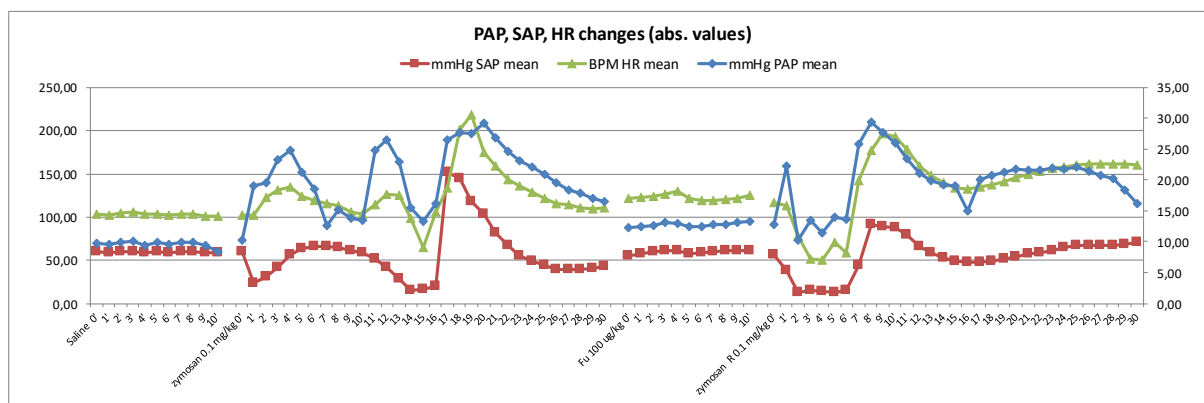


Figure S1: Time course of cardiovascular (PAP, SAP and HR) changes following fucoidan and zymosan i.v. injections in pigs.

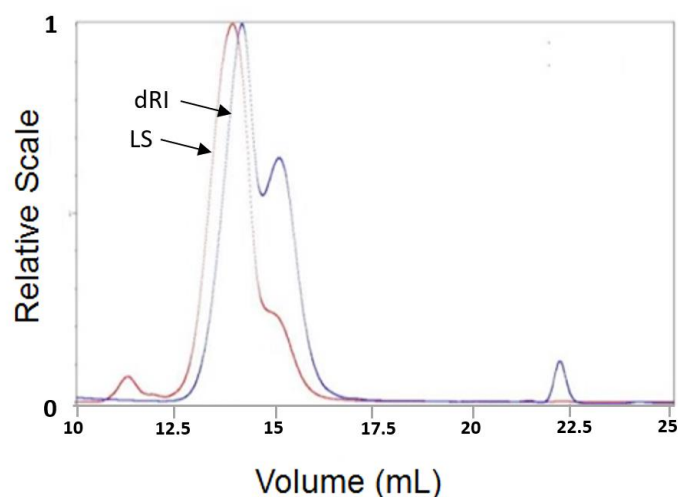


Figure S2: Refractive Index (blue line) and Light Scattering (red line) chromatograms of purified fucoidan eluted in 0.1 M LiNO₃ at 0.5 mL/min with Shodex SB-802.5 and SB-803 columns [22].

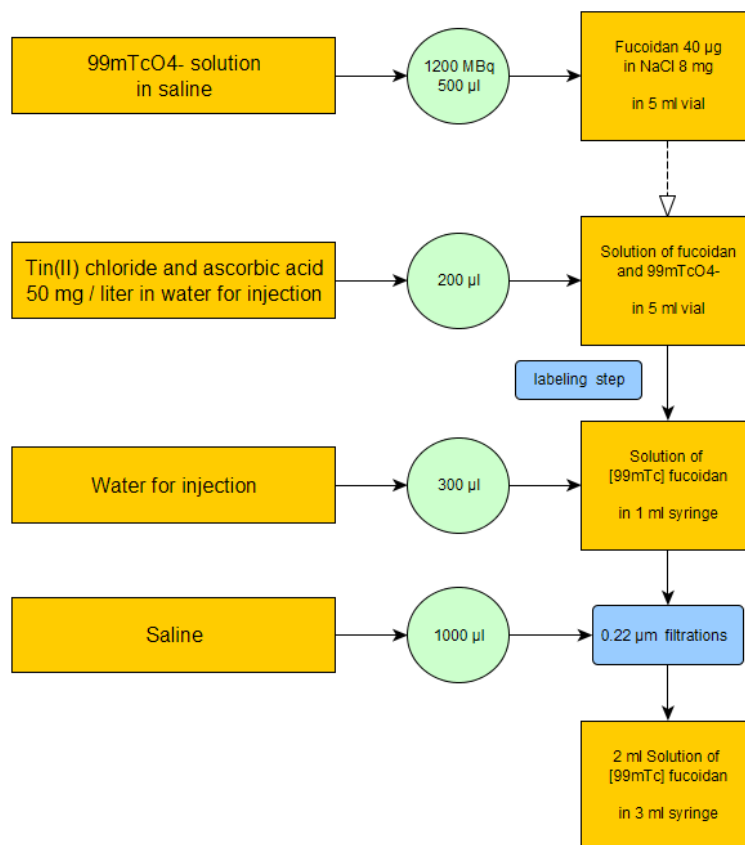


Figure S3: Scheme of extemporaneous preparation of radiolabeled GMP-grade LMW fucoidan (Investigational Medicinal Product).

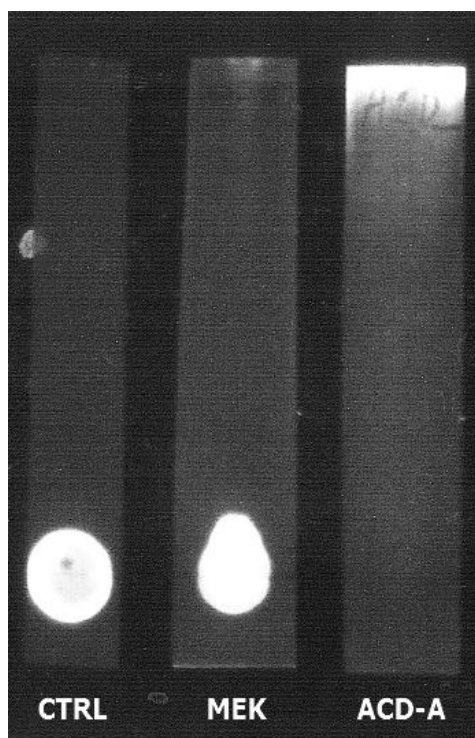


Figure S4: ITLC-SG plates spotted with fucoidan-FITC. UV exposition: Control (Left), MEK (Center), ACD-A (Right)

Component	Function	Quantity	Reference to Standards
Fucoidan, lyophilised powder	API	40 µg	In-House
^{99m} Tc sodium pertechnetate as Drytec® (Mo99/Tc-99m generator)	Radioactive precursor	1000-1300 MBq*	Authorized product MA n° 564.454-1 (GE healthcare)
Stannous chloride dihydrate**	Reducing agent	12 µg	Ph. Eur.
Ascorbic acid	Antioxidant	10 µg	Ph. Eur.
NaCl***	Isotonicity agent	21.5 mg	Authorized product Isotonic solution for dilution NaCl 0.9% MA n°351.159-6 (Braun)
Water for injection	Solvent	2 mL	Authorized products 340093-706.433-0 (Aguettant) 340093-585.515-2 (Baxter)

* Resulting in 400-800 MBq in the final labelled product

** Corresponding to 10 µg of anhydrous stannous chloride

***Coming from fucoidan lyophilized powder (8 mg), saline solution of Tc-99m (4.5 mg) and saline solution used during the preparation process

Table S1: Composition of radiolabeled GMP-grade LMW fucoidan (Investigational Medicinal Product).