

Figure 1-source data 1. Bill of materials

Crunchometer Bill of Materials							
Main components of Crunchometer							
Ítem	Description	Image	Quantity required	Unit price USD	Webpage seller	Model	Seller
1	Condenser Microphone with USB Cable		1	\$ 63.88	https://a.co/d/evaasBZ (Accessed 03-07-2025)	K669	FIFINE
2	Global Shutter High Speed 120fps at 1280 x 720p USB Camera with Mini Case with CS mount 2.8-12mm varifocal lens		1	\$ 107.24	https://a.co/d/22F4TgV (Accessed 03-07-2025)	KYT-U100-MCS2812 GS1	Kayeton
3	Kimble Phenolic Black Screw Cap with Solid PE Liners, Cap Size 22-400 (Case of 144)		Bottle cap number depends on the number of pellets measured by the Crunchometer	\$39.76	https://www.amazon.com/-/es/Kimble-phen%C3%B3licos%C3%B3lidos-polietileno-paquete/dp/B009EGMU8G?th=1	N/A	N/A

					(Accessed 13-11-2025)		
4	UHU Patafix Glue Pad Removable Reusable White		1	~\$8-10	https://www.amazon.com/dp/B01DNWS4YK (Accessed 25-07-2025)	N/A	N/A
5	Acoustic Panels 12x12x2 Inches Black Pyramid Acoustic Foam		1 package with 12 packs	~\$19-20	https://www.amazon.com/dp/B0928PWKH6/ref=sspa_dk_detail_right_aax_0?sp_csd=d2lkZ2V0TmFtZT1zcF9kZXRhWxfcmlnaHRfc2hhcmV&th=1 (Accessed 18-10-2025)	N/A	N/A
6	Acrylic Box		1	N/A	N/A	N/A	N/A

Optional: record liquid consumption (MED-PC required)

7	Contact lickometer controller with a 28 VDC controlled MED output		1	~\$350 - 400	- lickometer controller (Accessed 3-07-2025)	ENV-250C	Med Associates inc
8	ATmega2560 microcontroller board with USB cable.		1	~\$ 29.4	https://a.cod/d/B01H4ZLZLQ (Accessed 3-07-2025)	Mega 2560 R3	ELEGOO