



# CERTIFICATE OF ANALYSIS (COA)

Human Chorionic Gonadotropin (HCG)

Doc No: VEL-COA-HCG-VEL-202602-018 | Rev: 1.0 | 22 Feb 2026

For Research Use Only · Not for Human Consumption

PRODUCT IDENTIFICATION	
Product Name	Human Chorionic Gonadotropin (HCG)
Catalog / SKU	VEL-HCG
CAS Number	9002-61-3
Formula	Glycoprotein heterodimer (alpha/beta subunits)
Mol. Weight	~36,700 g/mol

LOT / BATCH INFORMATION	
Lot Number	VEL-202602-018
Manufacture Date	22 Feb 2026
Expiry Date	22 Feb 2028
Storage	-20°C, desiccated, protected from light
Sequence / Type	Alpha/beta heterodimer glycoprotein

QUALITY CONTROL TEST RESULTS				
TEST PARAMETER	SPECIFICATION	RESULT	METHOD	STATUS
Appearance	White lyophilized powder	Conforms	Visual	✓ PASS
Identity (MS)	MW confirmed ±0.5 Da	Confirmed	LC-MS	✓ PASS
Purity (HPLC)	≥98 IU/mg (bioassay)	98.5%	RP-HPLC, UV 214	✓ PASS
Water Content (KF)	≤10.0% w/w	7.1%	Karl Fischer	✓ PASS
Residual Solvents	ICH Q3C Class 2	Conforms	GC-FID	✓ PASS
Bacterial Endotoxins	<10 EU/mg	<5 EU/mg	LAL (gel-clot)	✓ PASS
Sterility (14-day)	No growth	No growth	USP <71>	✓ PASS
pH (1% aqueous)	4.0–9.0	6.9	Potentiometric	✓ PASS
Solubility	Soluble in sterile water	Complete dissolution	Visual/turbidimetric	✓ PASS

OVERALL LOT DISPOSITION	
<p><b>✓ RELEASED FOR DISTRIBUTION</b></p>	<p>All specifications have been met for Lot <b>VEL-202602-018</b>. This lot is hereby released for research distribution.</p> <p><b>Authorized by:</b> Quality Control Manager, Vial &amp; Error Labs  <b>Authorization Date:</b> 22 Feb 2026  <b>Expiry:</b> 22 Feb 2028</p>

PHYSICAL & CHEMICAL DESCRIPTION	
Appearance	White lyophilized powder
Solubility	Soluble in sterile water; reconstitute to 1,000 IU/mL
Storage	-20°C, desiccated, protected from light
Sequence / Notes	Alpha/beta heterodimer glycoprotein
Reconstitution	Add sterile water for injection (WFI) or appropriate buffer dropwise to achieve desired concentration. Gently swirl until dissolved. Do not vortex. Filter through 0.22 µm membrane filter if sterility is required.



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<b>Handling Notes</b>	Allow vial to equilibrate to room temperature before opening to minimize condensation. Aliquot into single-use volumes before freezing to avoid repeated freeze-thaw cycles.
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**RESEARCH USE ONLY — IMPORTANT DISCLAIMER:** This product is supplied for in vitro and ex vivo laboratory research purposes only. It has not been evaluated by the FDA or any other regulatory authority for safety, efficacy, or quality. It is not approved or intended for human therapeutic, diagnostic, veterinary, or food use. This COA is specific to the lot number stated above and should be retained with your records. Vial & Error Labs assumes no liability for misuse or use outside the intended research context. The purchaser assumes full responsibility for compliance with all applicable laws and regulations.