Growth Factor Panel

Vitti Labs EV-PURE vs. Competitor



Vitti Labs compared their frozen EV-PURE 5 mL placenta-derived Micro-Pods containing growth factors and cytokines product to a competitor's published results on their frozen 5 mL placenta-derived Micro-Pod product via an independent third-party laboratory. Vitti Lab's Micro-Pods outperformed the competitors' product in every category and have more than 15 times as many Micro-Pods, Growth Factors & Cytokines per mL than our competitor's published results at a better price for your patients.

Growth Factor (pg/mL)	EV-PURE 1 mL = 15 Billion	EV-PURE 5 mL = 75 Billion	Competitor 5 mL = 5 Billion	5 mL Competitor % of Vitti Labs 5 mL
BDNF	8.24	41.20	2.00	4.85%
ВМР-5	74,093.90	370,469.50	18,817.50	5.08%
FGF-7	295.00	1,475.00	79.00	5.36%
GDF-15	101,009.10	505,045.50	29,005.50	5.74%
GDNF	254.10	1,270.50	70.50	5.55%
HGF	3,188.00	15,940.00	808.50	5.07%
OPG	121,092.70	605,463.50	34,088.50	5.63%
SCF	2,245.00	11,225.00	600.00	5.35%
TGFß3	6,591.40	32,957.00	1,702.50	5.17%
VEGF	3,733.20	18,666.00	914.00	4.90%
ICAM-1	62,451.10	312,255.50	18,894.00	6.05%
IL-1ra	7,984.20	39,921.00	2,074.00	5.20%
IL-6	36,770.20	183,851.00	7,735.50	4.21%
IL-10	161.90	809.50	34.00	4.20%
MCP-1	33,504.20	167,521.00	10,147.00	6.06%
MIP-1a	138.00	690.00	41.50	6.01%
MIP-1b	2,911.70	14,558.50	787.50	5.41%
PDGF-BB	18,209.50	91,047.50	4,832.50	5.31%
TIMP-1	372,269.10	1,861,345.50	108,565.50	5.83%
TIMP-2	509,226.00	2,546,130.00	147,236.50	5.78%
TNF RI	6,905.40	34,527.00	2,168.00	6.28%



Growth factor potency listed as "pica gram/milliliter" EV-PURE testing completed by Creative Bioarray, November 2019.

Key Growth Factors and Cytokines contained in Vitti Lab's EV-PURE Product

BDNF	Brain-Derived Neurotrophic Factor - Supports Survival of Neurons and Encourage Growth		
BMP5	Bone Morphogenic Protein 5 - Stimulates Bone Growth		
FGF	Fibroblast Growth Factor - Potent Growth Factors Affecting Many Cells		
G-CSF	Granulocyte Colony Stimulating Factor - Stimulates Bone Marrow to Procedure Granulocytes and Stem Cells		
GDF15	Growth Differentiation Factor 15 - Regulates Inflammation, Apoptosis, Cell Repair, and Growth		
GDNF	Glial-Derived Neurotrophic Factor - Promotes Survival of Neurons		
HGF	Hepatocyte Growth Factor - Involved in Organ Regeneration and Wound Healing		
ICAM-1	Intercellular Adhesion Molecule 1 - Binds Inflammatory Ligands on White Cells		
IL-10	Interleukin 10 - Anti-Inflammatory Cytokine Responsible for Immunomodulation and Regulatory T Cell Conversion		
IL-1RA	Interleukin 1 Receptor Antagonist - Binds and Sequesters the Inflammatory Cytokine IL-1		
IL-6	Interleukin 6 - Responsible for Macrophage Activation		
MCP-1	Monocyte Chemoattractant Protein 1 - Recruits Mononuclear Cells to Treatment Area		
MIP-1	Macrophage Inflammatory Protein 1 - Also known as CC1-4, Recruits Mononuclear Cells to the Treatment Area		
OPG	Osteoprotegerin aka: Osteoclast Differentiation Factor - Stimulates Bone Growth/Blocks Osteoclast Precursor Formation		
PDGF-BB	Platelet Derived Growth Factor Sub Unit B - Growth Factor Used to Stimulate Healing in Soft and Hard Tissues		
SCF	Stem Cell Factor - Responsible for Stem Cell and Melanocyte Growth		
TGFß3	Transforming Growth Factor Beta 3 - Most Important Anti-Inflammatory Protein. Converts Inflammatory T Cells into Anti-Inflammatory Regulatory T Cells.		
TIMP1 & TIMP2	Tissue Inhibitor of Metallopeptidase 1 & 2 - Blocks Cartilage and Extracellular Matrix Degradation, Important for Cartilage Repair		
TNFR1	Tumor Necrosis Factor Receptor 1 - Binds and Inactivates the Inflammatory cytokine TNF- α		
VEGF	Vascular Endothelial Growth Factor - A Protein Involved in Both Angiogenesis and Vasculogenesis. Its most important role is to help in the creation of new blood vessels following an injury. VEGF is also involved in generating muscle tissue and bypassing blocked blood vessels.		

About Vitti Labs

Vitti Labs is a registered tissue bank with the U.S. Food & Drug Administration's Human Cell and Tissue Establishment department. Our establishment is registered to recover, package, research, process, store, label and distribute products and materials within the guidelines of 21 CFR part 1271.

We strive to make innovative therapeutic products that are intended for homologous use only, and work within all applicable FDA, AATB (American Association of Tissue Banking), and GTP (Good Tissue Practices) guidelines. It is our mission to follow the highest regulatory standards and prioritize public safety and quality assurance.