



## Why do Practices Replace PRP with **VITTI-PURE**? A “No Stick, No Spin, No Doubt” Solution

**VITTI-PURE** provides the highest quality tissue support matrix for joints, tendons, ligaments, and other musculoskeletal applications. The umbilical cord tissue is an excellent source of glycosaminoglycans, hyaluronic acid, chondroitin, and glucosamine as well as other naturally occurring biological materials with excellent building blocks like proteins, lipids, nucleic acids, and naturally occurring peptides for structural support and repair.

**VITTI-PURE**'s superior extracellular matrix (ECM) is minimally manipulated, therefore retaining its advanced growth factor profile of over 1,000 growth factors and 28 types of collagen as well as its complex structural support.

With these components **VITTI-PURE** creates an optimal product to encourage the rebuilding and repair of injury sites thus optimizing the body's innate healing potential.

### **VITTI-PURE: MORE EFFICIENT THAN PRP**

PRP must rely on the body's own available resources to create successful repair to a site of injury. However, as people age, their body no longer carries an abundance of the natural biomaterials that healthy repair needs to take place. Because of this, low innate healing potential occurs which results in poor repair for the body.

### **VITTI-PURE IS A TRUE ECM**

PRP attempts to mimic an Extracellular Matrix (ECM) but is not truly one as it is made of fibrin, an inflammatory fibrous, non-globular protein. ECM, like the one in **VITTI-PURE**, is a three-dimensional structural network consisting of growth factors known to be anti-inflammatory.

This product may contain live cells but does not claim that it is dependent on the metabolic activity of living cells for its primary function. This product contains tissue components such as hyaluronan, elastin, collagen fibers, growth factors, cytokines, and nanoparticles which stimulate homologous benefits; therefore, it is not reliant on the presence nor on the metabolism of the cells in this product to create a therapeutic benefit. This product does meet the criteria under 1271.3(d) as an HCT/P, and therefore is regulated under 21 CFR 1271 and Section 361 of the PHS Act.

### **INCREASED PATIENT SUCCESS**

Direct Introduction of Supporting Growth Factors  
True Extracellular Matrix to encourage Rebuilding

### **VITTI-PURE CONTAINS:**

Hyaluronic Acid	Nanoparticles
Elastins	Proteins
28 Collagen Types	Lipids
2 Collagen Subtypes	Nucleic Acids

### **THE VITTI-PURE ADVANTAGE**

Consistent Product Vial to Vial  
Doctor & Patient Time Efficiency  
Greater Success by Removing Margin of Error  
Eliminates Blood Draw Costs  
Replaces Expensive Equipment  
Less Inventory & Storage

### **MANY VARIABLES THAT CAN AFFECT PRP's SUCCESS:**

- Age of Patient
- Type of PRP Kit
- How Many Spins
- Temperature of PRP
- Person Preparing PRP
- Type of Centrifuge
- Activated/Not-Activated
- Patient's Overall Health
- Patient's Medications
- If Patient Exercises Before Draw



# VITTI-PURE VERSUS PRP



COMPARISONS	VITTI-PURE	PRP
Eliminates Blood Draw	YES	NO
Short Patient Wait Time	YES	NO
Young Growth Factors	YES	NO
Doesn't Need Inflammation	YES	NO
True ECM Network	YES	NO
Eliminates PRP Kits	YES	NO
No Expensive Equipment	YES	NO
User Error Eliminated	YES	NO
Consistent Product	YES	NO

## THE DIFFERENCE IS PURE.

VITTI-PURE utilizes umbilical cord tissue to provide a support matrix abundant in young growth factors supporting repair in the patient.

This solution offers rich biological materials and growth factors while bypassing the drawing and spinning of blood, expensive equipment, maintenance and extensive patient waiting times.

This is why we call VITTI-PURE a “No Stick, No Spin, No Doubt” Solution.

## HIGH QUALITY PRODUCTS

20% of every lot is sent for sterility and endotoxin testing by a 3rd party laboratory.



Growth Factor	VITTI-PURE	21 yrs old	37 yrs old	61 yrs old
BMP-5	3772	393	389	246
<b>VITTI-PURE contains 28 different types and 2 sub-types of collagen.</b>				
Collagen I a1	12270	1103	753	96
Collagen III	5601	1128	563	368
Collagen IVa6	4946	2066	1620	1170
Collagen IX	6529	703	363	187
Collagen V	8732	2091	1773	553
Collagen VI	5043	1200	671	437
Collagen X	4848	2178	1155	693
EGF	2397	529	253	236
GDF-15	2752	1139	826	299
ICAM-1	2581	1063	324	149
IGF-1	3248	557	261	151
<b>INTERLEUKINS: Regulatory proteins with the ability to accelerate or inhibit inflammatory processes.</b>				
IL-10	3842	266	155	33
IL-11	2828	1111	610	336
IL-1ra	5157	3021	2394	444
IL-4	3516	624	414	209
PDGF-AA	884	95	51	1
TGF β1	2504	305	175	86
TGF β3	371	103	74	39
TIMP-1	1040	209	162	133
TIMP-2	717	47	42	24
TNF a	1852	170	152	122
TNF β	2597	121	59	57

Over time, the body naturally produces fewer growth factors for repair and rebuilding as represented in the chart (above). This indicates the slowing bio-availability of growth factors as we age which PRP Therapy relies on.

## A “No Stick, No Spin, No Doubt” Solution