

# SMOKE TAIN REMOVAL

## *Proven New Process*

- New out-of-the box methodology
- Proprietary, patented method
- Based on new analytics measuring complete phenolic profile (before and after)
- Removal of free and bound compounds

The foundation of ConeTech's proprietary process was a comprehensive new approach to the analysis of smoke tainted wine. For the first time in the US, ConeTech has identified the compounds which cause smoke taint. This accurate identification allows for a targeted removal of free and bound compounds using a process very different from existing methodologies. The process begins with very low temperature vacuum distillation, which allows ConeTech to first completely separate the delicate essence compounds, which because of lighter molecular weight don't contain smoke taint. The remaining wine is then treated through selective media which aggressively target and remove the offensive smoke taint compounds. Following the removal of the smoke taint compounds the essence is recombined with the wine, resulting in a perfectly saleable premium wine.



For more information  
Phone +1 707.577.7500 or Email [info@advancedbevtech.com](mailto:info@advancedbevtech.com)

## ABOUT THE NEW ANALYTICS

Key to ConeTech's breakthrough in removing smoke taint is an analytical rigor never commercially applied before to smoke tainted wine. ConeTech utilizes analytic techniques, provided by an Illinois laboratory, specializing in chromatographic separation analysis. ConeTech selected 30 specific compounds and their glycosidically bound counterparts for analysis based on research findings and their relevance to smoke taint. All compounds were analyzed with extreme accuracy, to one tenth of a part per billion through the Illinois lab. Our proprietary analysis shows that both bound and free compounds are removed through ConeTech's process. Continued analytics over time indicate that wines processed with ConeTech's removal method have no return of offending compounds.

## ABOUT THE NEW SMOKE TAIN REMOVAL SYSTEM

ConeTech drew upon other industries for out-of-the-box solutions. These included the identification of a hyper-selective matrix with specific affinity for the offending compounds and a custom-designed chamber whose interior optimizes the wine's passage across the active elements in the matrix.

## ANALYTICAL RESULTS

Smoke Tainted Wine Analysis - 2018 Vintage Lake County						
Compound (sensory descriptor)	Free (ppb)			Bound (ppb)		
	Untreated	Treated	%	Untreated	Treated	%
4-methylguaiacol (tar, woody)	-	-	-	-	-	-
o-Cresol (coal, tar)	12.1	4.3	64.5	2.5	0.0	100
o-Guaiacol (ashy, phenolic)	23.7	13.1	44.7	20.0	9.7	51.5
Methyl p-Cresyl Ether (smoky, phenolic)	11.7	0.0	100	2.9	0.0	100
p-Cresol (medicinal, leather)	18.1	10.1	44.2	0.0	0.0	-
Phenol, 4-methoxy-3-methyl- (smoky, leather)	-	-	-	-	-	-
Syringol (woody, smoky)	46.2	0.0	100	38.4	0.0	100

- Analysis representative of a typical smoke tainted wine lot from the approximately 1.5 million liters ConeTech has commercially processed to date.
- Compounds shown in data table are most commonly identified in smoke tainted wine.

## ABOUT CONETECH INC

ConeTech Inc., is a specialized California-based company dedicated to radical technology-driven innovation in the global beverage industry. In 1991, ConeTech pioneered the application of Very Low Temperature Distillation (VLTD) when it imported to America the first Spinning Cone Column embodying this type of distillation. ConeTech later expanded its service centers to other countries (Spain, South Africa, Chile) and its technological skills to other beverages, becoming the largest SCC owner/user in the world, and most recently expanded its capabilities by co-developing its own unique GoLo technology. ConeTech is a member of the Advanced Beverage Technologies group of companies.

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