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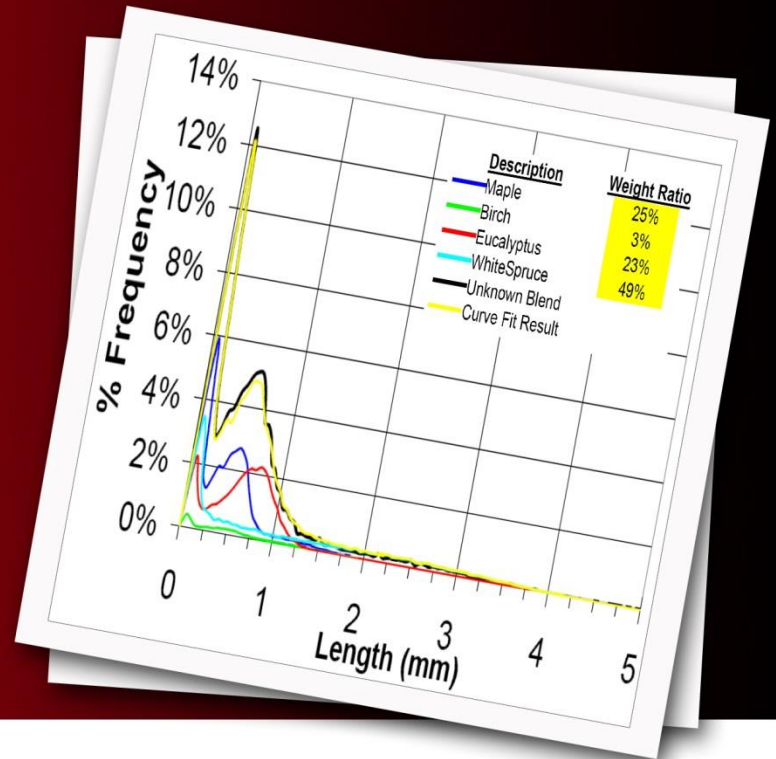
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OpTiBlend Pulp Blending

The OpTiBlend (OTB) estimates the mass ratio of pulp species in an unknown blend.

The software uses data from the either FQA-360 [Code LDA12] or the HiRes FQA [Code LDA02].



Fiber morphological data of 100% Pure pulp samples, collected by either the FQA-360 or the HiRes FQA, is used in combination with the fiber morphological data of blends with known mass ratio, to estimate the mass ratio of an unknown blend. Up to 5 species components may be estimated to an accuracy approaching 1% by weight.

The OTB software uses either XML Data files from the FQA-360 or the LC Data files from the HiRes FQA. These include files of the 100% Pure pulps, the Blends of known mass ratio and the Unknown Blends. The user selects the 100% Pure and Blends of Known Weight Ratio likely to be in the Unknown Blend. The OTB then uses the size distributions of fiber length and width to perform a proprietary 5-parameter least-squares fit to the length and width distribution of the unknown blend.

SPECIFICATIONS:

Data Source:

- OTB software installed on the FQA-360 [Code LDA12] host computer will use XML data files. HiRes Fiber Quality Analyzer [Code LDA02] data files are transferred to a desktop computer to be analyzed by the OTB software

Hardware & Software:

- Pentium Processor, 1+ Ghz, 512+ MB RAM, USB 2.0 port
- Microsoft Windows™ (Latest Versions)
- Microsoft Office™ (2007 or higher)