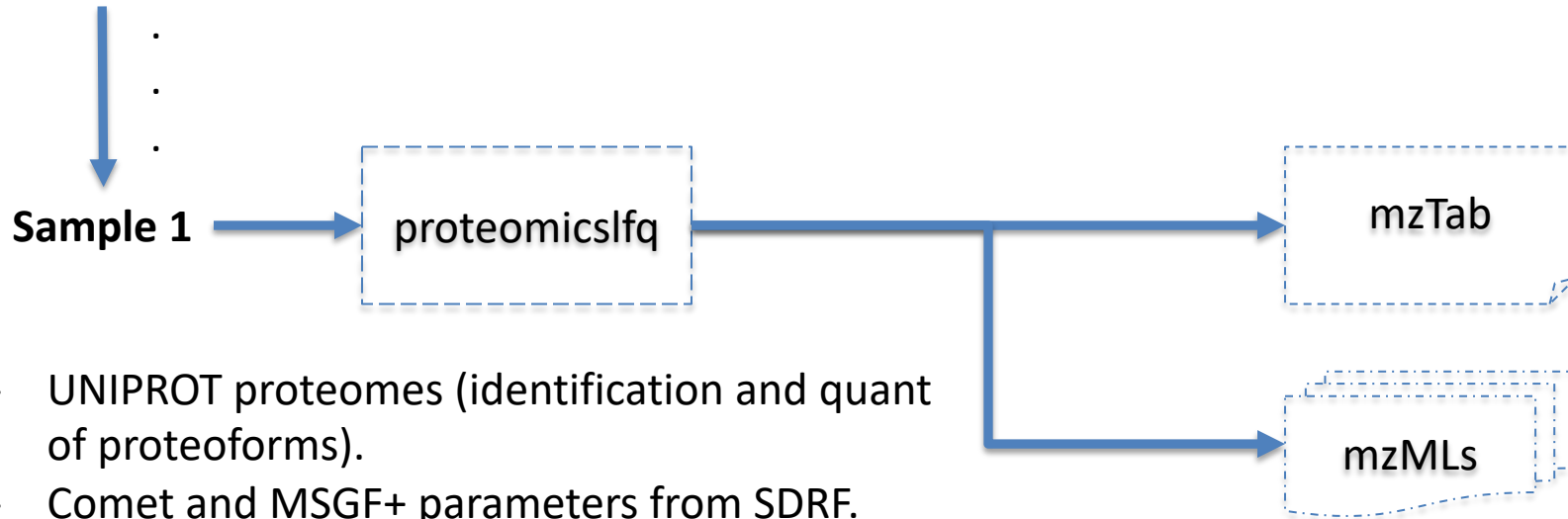# Label-Free pipelines analysis.

Label free experiment

source name	property 1	property 2	biological replicate	technical replicate	fraction
Sample 1					
Sample 2					

.
.
.

Sample 1 → proteomicslfq → mzTab

mzMLs

- UNIPROT proteomes (identification and quant of proteoforms).
- Comet and MSGF+ parameters from SDRF.
- Percolator + Consensus ID
- Luciphor (if Phospho-proteomics)
- Epifany and protein quantitation at sample level.

Label free experiment

characteristics[organism] characteristics[organism part]
characteristics[disease] characteristics[phenotype]

	Sample 1	Sample 2	Sample 3	biological replicate	technical replicate
Protein 1	value1	value2	value3		
Protein 2	value4	value5	value6		
…					

	Sample 1	Sample 2	Sample 3	biological replicate	technical replicate
Peptide 1	value1	value2	value3		
Peptide 1	value4	value5	value6		
…					

MSstats (Differential expression)

	Sample 1	Sample 2	Sample 3	biological replicate	technical replicate	Condition
Protein 1	value1	value2	value3			
Protein 2	value4	value5	value6			
…						

MSsTats

	condition 1 vs doncdition 2
Protein 1	value1
Protein 2	value4
…	

MSstats (absolute quant)

	Sample 1	Sample 2	Sample 3	biological replicate	technical replicate	Condition
Protein 1	value1	value2	value3			
Protein 2	value4	value5	value6			
…						

MSsTats

	condition 1	condition 2
Protein 1	value1	value 5
Protein 2	value4	value 6
…		

Spectral libraries indexing

```
spectral          pride json          uniport            PRIDE Json         Elastic search
libraries                              mapping            format             Indexer

                                       ensembl
                                       mapping

PRIDE             Sample pride                                               dlmse Indexer
projects          json
```