1. Purpose.

This document describes the functionality and operation of the Batch calculator provided by ETRL.

The Batch calculator can process files with requests to performs calculations based on the HLA types of a panel of donors. The chance to receive an organ and the percentage panel reactivity antibody on basis of the reactivity with the actual Eurotransplant donor population can be requested.

2. Commercial usage.

Usage of the calculators on the ETRL website for commercial purposes (such as incorporation into software packages) is subject to discussion with the head of the ETRL. Please contact the ETRL at etrl@eurotransplant.org for inquiries.

3. Username / password.

In order to manage updates and inform users of the webservice, ETRL wishes to know who is using the webservice. Therefore we need an email address that can be reached for technical issues. See also section 7.

4. Privacy policy.

Usage of the webservice will be logged and securely stored. This data will not be shared with 3rd parties.

5. How to use the webpage.

5.1 Step 1: Choose file.

To request these function you can upload a .TXT or .CSV file with data with this format:
Function|ID|HLA Antibodies|ABO|Typing|Acceptable
As you can see the columns are separated with a '|'.

Function can have these values:

- **VPRA**, to calculate the vPRA.
- **ETKAS** to calculate the chance to receive a kidney via ETKAS
- **AM** to calculate the chance to receive a kidney via the AM program
- **HEART**, to calculate the chance to receive a heart

ID can be used to report the results.

HLA antibodies are used in the functions VPRA, ETKAS and HEART.

ABO contains the blood group.

Typing is the patients HLA typing, only used for AM.

Acceptable contains the acceptable antigens, only used for AM.

Example:

```
Function|ID|HLA Antibodies|ABO|Typing|Acceptable

VPRA|Ident 1|B55, DR1|A

HEART|Ident 2|A25, A26, B15, B53, B73, B8|AB

AM|Ident 3||A|A1 A32 B52 B18 DR15 DR11|A9 A23 A24 B51 B14 DR4 DR12 DR13 DR7 DR8 DR9

ETKAS|Ident 4|A24, A3, B48, DR10, DR15, DR9|B
```

5.2 Step 2.

Supply your username and password.

5.3 Step 3: Upload.

The website will upload and process your file (this may take a while). The result will be presented on the page.

You can download the results by clicking on 'Export csv' for a <TAB> separated file or choose 'Export xml' for a download to a xml file.

6. URL.

The URL is www.etrl.org/Batch calculator/Default.aspx.

7. Contact.

For technical questions, feedback or to obtain a valid username / password combination, please contact:

Gijs Wams, IHB.ICT@lumc.nl. Telephone +31 - 71 - 526 5029.